

## Ambizione: Liste des bénéficiaires

### Ambizione 2019: 12<sup>ème</sup> mise au concours (78 subsides)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Amico	Enrico	EPF Lausanne	Autres secteurs des sciences de l'ingénieur	Fingerprinting the brain: network science to extract features of cognition, behavior and dysfunction
Anderson	Mark	EPF Lausanne	Neurophysiologie et neurologie cérébrale	Integrating regenerating circuits after spinal cord injury through neuroprosthetic rehabilitation
Auer	Thomas	Université de Lausanne	Zoologie	Gustatory circuit evolution in Drosophilids
Ben-Nun	Tal	ETH Zürich	Informatique	Empowering Computational Science using Data-Centric Programming
Biondini	Simone	Universität Basel	Physique théorique	Effective field theory and open quantum system approach for dark matter dynamics in the early universe
Boeck	Lucas	Universität Basel	Microbiologie médicale	Molecular basis of Mycobacterium Abscessus heterogeneity during stress
Braun	Lesley	Universität Basel	Ethnologie	The Travail and Travels of Congolese Transnational Trader Women
Buldgen	Gaël	Université de Genève	Astronomie, astrophysique et recherche spatiale	Seismic inversions and modelling of transport processes in stars
Bzdusek	Tomas	PSI Villigen	Physique de la matière condensée	Topological band theory of driven and dissipative systems
Canales-Rodríguez	Erick Jorge	EPF Lausanne	Autres secteurs des sciences de l'ingénieur	Non-invasive histology of the brain microstructure in vivo using advanced modeling techniques and multi-contrast MRI data
Chambert-Protat	Pierre	Université de Fribourg	Histoire générale (sans préhistoire)	Le Codex Phimarcensis: treize siècles de lectures
Chiapperino	Luca	Université de Lausanne	Sociologie	Constructing the Biosocial: an engaged inquiry into epigenetics and post-genomic biosciences

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Chipaux	Mayeul	EPF Lausanne	Autres secteurs de la physique	Electron-Beam Based Selective Quantum Manipulations of Nitrogen-Vacancy Centers in Diamond
Coppola	Alysha	ETH Zürich	Géochimie	Fire and Water: Reconciling the black carbon conundrum at the river-to-ocean interface
Cordes	Matthew	ETH Zürich	Mathématiques	Searching for Hyperbolicity and Approximate Groups
de Geus	Tom	EPF Lausanne	Physique de la matière condensée	The Five 'D's of Friction
del Valle Granda	Javier	Université de Genève	Physique de la matière condensée	Correlated oxides for Neuromorphic Computing
Deuchert	Andreas	Universität Zürich	Mathématiques	Dünne Bosegase bei positiven Temperaturen
Dick	Leopold	Berner Fachhochschule	Musique, théâtre	Opera mediatrix. Avanciertes Musiktheater und kollektive Identitätsbildung in der Schweiz seit 1945
Douillet	Guilhem	Universität Bern	Géologie	Sediment transport due to large storms: Multiple tools for a complex problem
Dudin	Omayya	EPF Lausanne	Biologie cellulaire, cytologie	Pre-metazoan origins of animal developmental mechanisms
Duval	Suzanne	Université de Lausanne	Langues romanes	Le style des Lettres de Jean-Louis Guez de Balzac. Enquête sur le purisme littéraire
Eeftens	Marloes	Universität Basel	Méthodologie de l'épidémiologie et de la médecine préventive	Effects of airborne pollen on cardiorespiratory health and allergic symptoms
Eichenberger	Ramon Marc	Universität Zürich	Médecine vétérinaire	A sweet dispute: functional and antigenic characterisation of Fasciola hepatica liver fluke glycoproteins to identify novel preventive intervention approaches
Elsig	Alexandre	EPF Lausanne	Histoire suisse	La dose et le poison. Mesurer, gouverner et combattre la toxicité industrielle au 20ème siècle
Engelsen	Nils Johan	EPF Lausanne	Physique de la matière condensée	Quantum Optomechanics with Ultralow Mechanical Dissipation

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Esteban Sanz-Dranguet	Oscar	Université de Lausanne	Informatique	Uncovering the interplay of structure, function, and dynamics of brain connectivity using MRI
Fischer	Carolin	Universität Bern	Sociologie	Violent Safe Havens? Exploring Articulations and Repercussions of Violence in Refugee Reception and Settlement
Flandin	Simon	Université de Genève	Pédagogie et sciences de l'éducation	Resilience-Oriented Training for Safety-concerned Organizations
Forjaco Jorge	Joao Pedro	Université de Lausanne	Autres secteurs des sciences de l'ingénieur	Bridging gaps in the neuroimaging puzzle: advanced techniques for comprehensive mapping of brain anatomy and multi-scale network activity
Gilarranz	Luis J	EAWAG	Ecologie	Understanding Resilience in Complex Ecological Systems
Gilbert	Kimberly	Universität Bern	Génétique	Evolution and adaptation under complex demographic scenarios
Goutaki	Myrofora	Universität Bern	Troubles respiratoires	From the nose to the lungs: the importance of upper respiratory disease in Primary Ciliary Dyskinesia
Gruber	Dominik	Université de Genève	Mathématiques	The spectrum of infinite monster groups
Harris	Michelle	Universität Bern	Psychologie	Understanding the Impact of Social Relationships on Self-Esteem
Heyden	Stefanie	ETH Zürich	Génie mécanique	Multi-scale modeling of size effects in the fracture of soft solids
Hithnawi	Anwar	ETH Zürich	Informatique	Privacy Preserving Federated Learning
Hodel	Tobias	Université de Lausanne	Histoire générale (sans préhistoire)	Konsequenzen des maschinellen Lernens für die Geschichtswissenschaft, Fokus Quellen vor 1800
Jeannet	Anne-Marie	Université de Lausanne	Sociologie	Deindustrializing Societies and the Political Consequences: The individual, household and local level impact of manufacturing decline on the political attitudes and participation
Jutzeler	Catherine	ETH Zürich	Pathophysiologie clinique	Precision-Medicine for Neurological Disorders: Harnessing the Power of Big Data and Machine Learning for Biomarker Discovery and Drug Repositioning Strategies
Kole	Merlin	Université de Genève	Astronomie, astrophysique et recherche spatiale	Understanding Gamma-Ray Bursts using Multi-Instrument and Multi-Parameter studies

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Kuonen	François	Université de Lausanne	Recherches expérimentales sur le cancer	Epigenetic landscape and master regulators of basal to squamous cell carcinoma transition
Lechleitner	Franziska	Universität Bern	Géochimie	Probing the potential of STalagmite Organic Matter as a direct tracer for terrestrial ecosystem dynamics and their response to past Climate Change (STOM-CC)
Logins	Arturs	Universität Zürich	Philosophie	Graded Epistemology
Longchamp	Alban	Université de Lausanne	Cardio-angiologie	Role of endogenous hydrogen sulfide in the control of vascular aging
Machado Ruiz	Ricardo Alberto	Université de Neuchâtel	Ecologie	Glowing Belowground: Bioluminescence as Regulator of Multi-trophic Interactions in the Rhizosphere
Marchant	Pablo	Université de Genève	Autres secteurs de la physique	Understanding the formation of the most massive stellar black holes
Martin	Barbara	Universität Basel	Histoire générale (sans préhistoire)	Finding Faith in an Atheist Land: Russian Orthodox Intelligentsia and the Late Soviet National-Religious Revival
Mazza	Giacomo	Université de Genève	Physique de la matière condensée	Quantum Materials and Cavity QED
Merlo	Giovanni	Université de Genève	Philosophie	The privileged present: from phenomenology to metaphysics
Messerli	Michael	Universität Zürich	Philosophie	Transformative Experiences
Molina Bueno	Laura	ETH Zürich	Autres secteurs de la physique	Development of Data Acquisition Systems based on Silicon Photomultipliers readouts to search for dark sectors in NA64 at CERN
Nguyen	Thuy Anh Khoa	Universität Bern	Biomedical Engineering	Mapping and Modeling of Deep Brain Stimulation
Oldani	Graziano	Université de Genève	Chirurgie	Immunosuppression-free transplantation of autologous livers grown in xenogeneic species
Palomba	Fabio	Universität Zürich	Informatique	Test Code Quality: A New Dimension of Test Code Effectiveness
Pati	Sarah	Universität Basel	Autres secteurs des sciences de l'environnement	Isotope Fractionation of O2 Associated with Enzymatic and Photochemical Reactions in Aquatic Environments
Perarnau Llobet	Marti	Université de Genève	Physique théorique	Quantum Thermodynamics: From foundations to applications

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Peters	Bradley	ETH Zürich	Géochimie	The Hadean geochemical heritage of Earth's ancient and modern mantle
Portmann	Alexandra	Universität Bern	Théâtre et cinéma	Festivals and Institutional Changes: Perspectives on International Theatre Production
Ramires	Aline	PSI Villigen	Physique de la matière condensée	New theoretical tools for the design and optimization of emergent phases of matter in complex materials
Ravagnani	Alberto	Universität Zürich	Mathématiques	Structural Invariants of Codes and Networks -- A Lattice Theory Approach
Reiter	Florentin	ETH Zürich	Physique théorique	Dissipation Engineering of Fault-Tolerant Quantum Computation and Phases for Quantum Metrology
Rivas Velarde	Minerva Concepcion	Université de Genève	Santé	Assessing the Impact of Video Remote Sign Language Interpreting in Healthcare: Linking Disability Studies with Empirical Challenges of Public Health Research
Romanello	Matteo	Université de Lausanne	Sciences de l'Antiquité	How does a classical hero die in the digital age? Using Sophocles' Ajax to create a commentary on commentaries
Rosner	Agnes	Universität Zürich	Psychologie	The mind's eye in episodic memory: Looking at things that are no longer there
Sachet	Paolo	Université de Genève	Histoire suisse	The Greek Imprint on Europe: Patristics and Publishing in the Early Swiss Reformation
Sacramento	João	ETH Zürich	Biophysique	Probabilistic learning in deep cortical networks
Schmolka	Nina Alexandra	Universität Zürich	Biologie moléculaire	Dissecting epigenetic mechanisms during early haematopoiesis
Schraff	Dominik	ETH Zürich	Sciences politiques	Regional Inequality and the Political Geography of EU Support
Shalev	Netta	ETH Zürich	Géochimie	Using oceanic Mg and Sr stable isotope records to understand the past Earth
Silva	Ralph	ETH Zürich	Physique théorique	An information-theoretic investigation of quantum clocks: from fundamental limits to novel implementations
Sommet	Nicolas	Université de Lausanne	Psychologie	The Effects of Income Inequality on Psychological Functioning
Soter	Anna	ETH Zürich	Physique des particules élémentaires	Cold Muonium Beam for Atomic Physics and Antimatter Gravity

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Tapscott	Rebecca	IHEID Genève	Sciences politiques	The Transnational Politics of Ethics Review: A Study of the Effects of Ethical Regulations on Political Voice in Global South Countries
Trein	Josef Philipp	Université de Genève	Sciences politiques	The Politicization of E-Government. A Comparative Analysis across Policy Domains and Countries
Veneziale	Marco	Universität Zürich	Langues romanes	Les poètes de François Ier et la naissance du pétrarquisme français. Une nouvelle approche philologique
Wunsch	Natasha	ETH Zürich	Sciences politiques	Democratic Backsliding in Eastern Europe: Sequence, Strategies, and Citizens
Yilmaz	Bahtiyar	Universität Bern	Microbiologie médicale	Evolutionary dynamics of bacteria in the intestines of IBD patients

#### Ambizione 2018: 11<sup>ème</sup> mise au concours (90 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Abreu	Elsa	ETH Zürich	Physique de la matière condensée	Exploring superconductivity pathways in low dimensional spin-ladder and spin-chain compounds
Achermann	Dania	Universität Bern	Histoire générale (sans préhistoire)	Ice Cores, Small States and Global Climate Change: The rise of a new scientific discipline
Altamura	Carlo Edoardo	IHEID Genève	Histoire générale (sans préhistoire)	Business with the Devil? Assessing the Financial Dimension of Authoritarian Regimes in Latin America, 1973-1985
Averill	Colin	ETH Zürich	Ecologie	Alternative stable states of the forest microbiome: causes and carbon-climate consequences of forest mycorrhizal game interactions
Banik	Subhadeep	EPF Lausanne	Génie électrique	Energy Efficient Cryptography
Barcat	Dominique	Université de Fribourg	Sciences de l'Antiquité	Présence de l'Égypte dans la glyptique d'époque romaine impériale
Bärnreuther	Sandra	Universität Zürich	Ethnologie	Visions of the Social: The Transformation of State Planning in Postcolonial India
Baud	Maxime	Universität Bern	Neurophysiologie et neurologie cérébrale	Chronobiology of Seizure Risk in Epilepsy
Baumann	Isabel	ZHAW Winterthur	Sociologie	Health inequalities and the prolongation of working life

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Betancourt	Christopher	Universität Zürich	Physique des particules élémentaires	Novel detector technologies for precision measurements in particle physics experiments
Bianchi	Renzo	Université de Neuchâtel	Psychologie	ETIOLOGY OF THE BURNOUT SYNDROME: A THREE-WAVE STUDY
Bischof	Daniel	Universität Zürich	Sciences politiques	The Causes and Consequences of Extreme Party Entry
Borduas	Nadine	ETH Zürich	Climatologie, physique de l'atmosphère, aéronomie	Organic aerosols' impact on aerosol-cloud interactions in mixed-phase clouds
Brugger	Eva	Universität Zürich	Histoire générale (sans préhistoire)	Global Material Desires. Beaver Fur Trade and the Creation of Markets in the 17th century
Bueno	Nicolas	Universität Zürich	Sciences juridiques	Human Economy: Rethinking Economic Human Rights in the Global Economy
Carattini	Stefano	Universität St.Gallen	Economie politique	Peer Effects, Environmentalism and Renewables' Spread II (PEERS II)
Carmona	Santiago	Université de Lausanne	Biologie moléculaire	A meta-analysis of single-cell transcriptomics data to characterize the landscape of tumor infiltrating T-cells
Cheval	Boris	Université de Genève	Psychologie	Behaviors minimizing energetic cost: A reward?
Chiodo	Gabriel	ETH Zürich	Météorologie	The Overlooked Role of Stratospheric Ozone in forcing Northern Hemispheric climate (TORSO)
Conte	Giulio	Cardiocentro Ticino	Cardio-angiologie clinique	A NOVEL APPROACH TO ASSESS ATRIAL ELECTRICAL ABNORMALITIES IN PATIENTS WITH BRUGADA SYNDROME: FROM THE ECG TO THE CREATION OF A PATIENT-SPECIFIC CARDIAC MODEL
Courtin	Julien	FMI Basel	Neurophysiologie et neurologie cérébrale	Amygdala circuit mechanisms of goal-directed behavior
De Luca	Marta	Universität Basel	Physique de la matière condensée	Quantum structures in nanowires: physical properties on demand by hydrogen irradiation
Drozdovskaya	Maria	Universität Bern	Astronomie, astrophysique et recherche spatiale	The planetary cookbook: chemical composition of volatiles and refractories from star-forming regions to comets and planetesimals
Efthimiou	Orestis	Universität Bern	Statistiques médicales	Predicting the real-world effectiveness and safety of medical interventions

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Favino	Marco	Université de Lausanne	Mathématiques	Unraveling the attenuation and velocity dispersion of seismic waves in complex fractured media by means of multilevel simulations
Fioretta	Emanuela	Universität Zürich	Cardio-angiologie	Development of regenerative aortic valves for minimally invasive implantation
Gerber	Thomas	EPF Lausanne	Mathématiques	Representations of finite groups and quantum groups: categorification, combinatorics and interactions
Girard	Charles	Université de Genève	Philosophie	La forme dans tous ses états : forme et types de formes dans les commentaires au Livre des six principes (XIIIe-XIVe)
Giuliani	Andrea	Université de Genève	Géophysique	A new understanding of kimberlite magmas from deep Earth to diamond mines
Gonzalez	Diego	Université de Neuchâtel	Microbiologie expérimentale	Circadian Timekeepers in Proteobacteria
Grätz	Michael	Université de Lausanne	Sociologie	The Intergenerational Consequences of Demographic Behaviour: Estimating the Effects of Parental Union Formation and Fertility on Educational Mobility
Günther	Tobias	ETH Zürich	Informatique	Guided Large-Scale Exploration of Meteorological Data
Hagelberg	Janis	Université de Genève	Astronomie, astrophysique et recherche spatiale	Planets with Two Suns
Hämmerli	Johannes	Universität Bern	Géophysique	Microanalysis of halogens and volatiles in apatite: A new tool for understanding the composition and role of fluids in the evolution of the continental crust.
Harms	Alexander	Universität Basel	Microbiologie expérimentale	Phages to the front: Exploiting bacterial viruses to control antibiotic-tolerant infections
Hazak	Ora	Université de Fribourg	Biologie moléculaire	CLE peptides-unraveling the functions in root growth and adaptations
Ihli	Johannes	PSI Villigen	Chimie inorganique	Resonant Coherent Diffraction Imaging, Towards Quantitative Nanoscopic Correlation Spectroscopy in Heterogeneous Catalysis
Kienzler	Daniel	ETH Zürich	Autres secteurs de la physique	High-level control and spectroscopy of single trapped molecular ions



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Kneer	Markus	Universität Zürich	Philosophie	Reading Guilty Minds
Kohler	Philipp	Kantonsspital St.Gallen	Maladies infectieuses	Antibiotic resistant gram-negative pathogens in Switzerland: Epidemiology in nursing homes and detection of patient clusters across different institutions and clinical settings
Laketa	Suncana	Université de Neuchâtel	Géographie humaine et économique, écologie humaine	Terrorism and the city: affect, space and violence in urban Europe
Lambert	Charles-Henri	ETH Zürich	Sciences des matériaux	Antiferromagnetic materials for magneto- and opto-electronics
Lambert	Gaultier	Universität Zürich	Mathématiques	Asymptotic aspects of the theories of free fermions and beta-ensembles
Lasauskaite	Ruta	Universität Basel	Psychologie	Influence of lighting on mental effort and on motivational deficit caused by fatigue
Le Bihan	Baptiste	Université de Genève	Philosophie	Composing the World Out of Nowhere: The Mereological Structures of Quantum Gravity
Leal	Allan	ETH Zürich	Mathématiques	Innovative Computational Methods for Ultra-Fast Simulations of Coupled Physical and Chemical Processes Using Machine Learning and GPU Parallel Computing
Lehmann	Marco	WSL Birmensdorf	Autres secteurs des sciences de l'environnement	From assimilates towards tree-rings – Triple isotope analysis of carbohydrates (TreeCarbo)
Li	Xiangyi	Université de Neuchâtel	Ecologie	Towards a more biologically informed evolutionary game theory
Loukas	Andreas	EPF Lausanne	Informatique	Deep Learning for Graph-structured data
Luo	Wen	EPF Lausanne	Chimie physique	Investigation of CO2 hydrogenation on Metal Clusters with NAP-XPS (CO2Clé)
Lustenberger	Caroline	ETH Zürich	Neurophysiologie et neurologie cérébrale	Boosting sleep to excel during the day: Elucidating the influence of sleep network dynamics on brain and body health
Machek	David	Universität Bern	Philosophie	Carving up moral motivation in ancient Chinese and Greek thought
Manhart	Michael	ETH Zürich	Microbiologie expérimentale	Molecular mechanisms and evolutionary consequences of pleiotropy and single-cell variation in microbial growth

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Martin Moraud	Eduardo	Université de Lausanne	Biomedical Engineering	Brain-controlled neuromodulation therapies to address gait impairments in Parkinson's disease
Matsuda	Shinya	Universität Basel	Embryologie, biologie de développement	Investigating organ patterning and growth by the Dpp/BMP morphogen gradient using novel synthetic receptors
Moser	Simon	Universität Zürich	Physique de la matière condensée	Functional transition metal oxides
Müller	Annalena	Université de Fribourg	Histoire générale (sans préhistoire)	Powerful Piety. Practices of Female Abbatial Authority in Medieval Europe (c. 1200-1450)
Naef	Patrick	Université de Genève	Géographie humaine et économique, écologie humaine	La construction d'un modèle de 'ville résiliente' dans le programme '100 Resilient Cities' : Regards croisés sur La Nouvelle-Orléans et Medellín
Ngosso	Mathieu Thierry	Universität St.Gallen	Philosophie	Droit à la santé et aux soins de santé et responsabilité des Etats et des entreprises en Afrique Subsaharienne
Nlandu Khodo	Stellor	Universität Zürich	Cardio-angiologie	Deleting the TGF- $\beta$ Receptor Impairs Proximal Tubule Response to Chronic Injury
Padmanabhan	Hamsa	Université de Genève	Astronomie, astrophysique et recherche spatiale	Probing the universe: through reionization and beyond
Pascucci	David	EPF Lausanne	Psychologie	Serial dependence in perception and decision-making
Pellizzoni	Michela Maria	Université de Fribourg	Chimie inorganique	Functional Reprogramming of Natural and Unnatural Polymers by Atom Transfer Radical Addases (ATRAase)
Pezzato	Cristian	EPF Lausanne	Chimie organique	Metastable-State Photoacids and Electrochemical Cells
Pikor	Natalia	Kantonsspital St.Gallen	Immunologie, immunopathologie	Identification and manipulation of immune-stimulating fibroblastic stromal cell niches in the inflamed CNS
Richetto	Juliet	Universität Zürich	Neurophysiologie et neurologie cérébrale	Microbiota-dependent epigenetic programming of specific CNS cell populations
Rickhaus	Michel	Universität Zürich	Chimie organique	n-Saddles Made to Order: Synthesis, Dynamics, and Cooperative Behaviour

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Saintilan	Nicolas	ETH Zürich	Géophysique	Understanding osmium (Os) recycling during subduction zone metamorphism
Serra	Joaquim	ETH Zürich	Mathématiques	A geometric approach to nonlinear elliptic and parabolic equations
Shoshan	Michal	Universität Zürich	Chimie inorganique	Selective Heavy Metal Detoxification by Short Peptides: A New Approach for Chelation Therapy
Simonov	Arkadiy	ETH Zürich	Physique de la matière condensée	Optimizing functional materials through tailored disorder
Singh	Devani	Université de Genève	Langues germaniques et anglaises	To the Reader: The English Preface in Print, c. 1475-1623
Solly	Emily	ETH Zürich	Autres secteurs des sciences de l'environnement	When trees die: Understanding how plants and microbes interact and influence soil biogeochemical processes
Sossi	Paolo	ETH Zürich	Géophysique	Experimental and stable isotope constraints on the accretion and differentiation of the terrestrial planets
Stegmayer	Katharina	Universität Bern	Neurologie, psychiatrie	Biomarkers of interpersonal space regulation in schizophrenia: a physiological and neuroimaging study
Stoll-Knecht	Anna	SUPSI Verscio	Musicologie	Music and Clowning in Europe, 20th.-21st centuries
Stuart	Michael	Université de Genève	Philosophie	Imagination in Science: What is it, how do we learn from it, and how can we improve it?
Tancredi	Lorenzo	ETH Zürich	Physique des particules élémentaires	Scattering amplitudes at high loops and multiplicities
Timofeeva	Mariia	ETH Zürich	Sciences des matériaux	All-dielectric nanowires as building blocks for nonlinear photonics
Tocci	Gabriele	Universität Zürich	Chimie physique	Ab Initio Nanofluidics: Electronic Structure and Transport Properties for Osmotic Energy Conversion
Trifunovic	Luka	Universität Zürich	Physique de la matière condensée	Strong and weak topological insulators and superconductors
Weber	Nadir	Universität Bern	Histoire générale (sans préhistoire)	Falken in der Höfischen Gesellschaft: Interspezifische Interaktionen und symbolische Repräsentation von Königsherrschaft in Europa (17. und 18. Jahrhundert)

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Wendling	Carolin	ETH Zürich	Microbiologie expérimentale	Evolution and Spread of Antibiotic Resistance Encoded by Prophages
Woods	Mischa	ETH Zürich	Physique théorique	The resource of time in quantum information theory
Yamine	Sophie	Universität Bern	Pédiatrie	Combination of functional imaging and detailed lung function assessment to describe lung development in preterm children
Zander	Thea	Universität Basel	Psychologie	Intuition and "jumping to conclusions" in schizophrenia: Studying the temporal relationship in daily life and with neuroimaging
Zeymer	Cathleen	ETH Zürich	Chimie organique	Design and Directed Evolution of Metal-Dependent Protein Catalysts for Non-Natural Chemical Transformations
Zimmer	Stephan	Universität Zürich	Astronomie, astrophysique et recherche spatiale	Shedding New Light on Particle Acceleration Processes in Clusters of Galaxies
Zoller	Max	PSI Villigen	Physique théorique	High precision calculations for the Large Hadron Collider - Automation at NNLO
Zscheischler	Jakob	Universität Bern	Climatologie, physique de l'atmosphère, aéronomie	New metrics for constraining multiple drivers of hazard and compound hazards

#### Ambizione 2017: 10<sup>ème</sup> mise au concours (89 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Agoritsas	Elisabeth	EPF Lausanne	Physique théorique	Field-theoretical approaches for the plasticity in sheared amorphous materials
Aubert	Alice H.	EAWAG Dübendorf	Autres secteurs des sciences de l'environnement	Environmental Decision Analysis with Games – Edanaga
Bengoechea	Paloma	ETH Zürich	Mathématiques	Modular Forms and Diophantine Approximation
Blanchoud	Simon	Université de Fribourg	Embryologie, biologie de développement	Whole-body regeneration in <i>Botrylloides leachi</i>

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Bloch	Elias	Université de Lausanne	Géochimie	Diffusion kinetics of U, Th, Pb, Hf and REEs in baddeleyite, and development of local electrode atom probe tomography as a means to analyze experimentally induced diffusion profiles in crystalline materials
Bower	Daniel	Universität Bern	Astronomie, astrophysique et recherche spatiale	The formation and interior dynamics of super-Earths
Burla	Maurizio	ETH Zürich	Microélectronique, optoélectronique	Millimeter-wave on-chip wireless-optical transceivers for 5G wireless communications
Cametti	Georgia	Universität Bern	Minéralogie	Insight into sorption mechanism of natural zeolites: Investigation of the bulk structural and surface-modifications after heavy-metal treatment in aqueous solutions
Caprettini	Bruno	Universität Zürich	Economie politique	Structural Change: Lessons from the Present and from the Past
Colombi	Andrea	ETH Zürich	Génie mécanique	Structured materials for multiscale wave control
Comte	Denis	Université de Lausanne	Immunologie, immunopathologie	Restoration of IL-2 response and cytotoxic capacity of CD8+ T cell and NK cell from systemic lupus erythematosus patients
Critten	Rory	Université de Fribourg	Langues germaniques et anglaises	Practising French in Fifteenth-Century England
De Cian	Michel	EPF Lausanne	Physique des particules élémentaires	Probing right-handed currents in quark flavour physics
Delvendahl	Igor	Universität Zürich	Neurophysiologie et neurologie cérébrale	Presynaptic mechanisms mediating robustness and plasticity of synaptic function
Dolveck	Franz	Université de Genève	Sciences de l'Antiquité	Ausone, aux sources médiévales d'un problème antique (IVe-XVIIe siècle)
Dorn	Caroline	Universität Zürich	Astronomie, astrophysique et recherche spatiale	Planetary Diversity
Eickhoff	Carsten	ETH Zürich	Informatique	Representation Learning for Clinical Artificial Intelligence
Fabre	Pierre	Université de Genève	Génétique	Chromatin Organization and Transcriptional Regulation of Axon Guidance Decision

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Federau	Christian	Universität Zürich / ETH Zürich	Biomedical Engineering	Measuring Perfusion with Intra-Voxel Incoherent Motion
Filippone	Michele	Université de Genève	Physique de la matière condensée	Dynamics of strongly correlated quantum systems and devices
Foth	Christian	Université de Fribourg	Paléontologie (sc. terre)	The phylogenetic relationship of theropod dinosaurs and the role of heterochrony in the deep origin of birds
Frey	Renato	Universität Basel	Psychologie	Mapping the ecology of risk taking: A test of the generalizability of the construct risk preference to real-life behaviors
Gavazov	Konstantin	WSL Birmensdorf	Autres secteurs des sciences de l'environnement	Can forest expansion in mountain ecosystems generate a positive feedback to climate change: the unseen role of symbiotic mycorrhizae
Gehring	Kai	Universität Zürich	Economie politique	Threats to the stability of nations? Resources, identities and conflict
Gibertini	Marco	Université de Genève	Physique de la matière condensée	Topology and magnetism in novel 2D materials and interfaces
Gorji	Mohammadhossein	EPF Lausanne	Dynamique des fluides	General-Purpose Low-Variance Continuous Stochastic Processes for Gases and Plasmas
Graham	Alexander	ETH Zürich	Chimie inorganique	Toward High-Throughput Quantitative Analysis of Nanoparticle Pollution in Environmental Samples
Grossiord	Charlotte	WSL Birmensdorf	Ecologie	Forest under Stress: Understanding how Species interact and adjust to Climate Change
Gullans	Michael	ETH Zürich	Physique théorique	Strongly Correlated Quantum Optics - SCQO
Hallama	Peter	Universität Bern	Histoire générale (sans préhistoire)	Sozialistische Vaterschaft. Zukunftsvorstellungen und familiärer Alltag in Ostmitteleuropa
Hediger	Karin	Universität Basel	Psychologie	Psychophysiological effects of animal-assisted interventions in patients with brain injury
Henny	Sundar	Universität Bern	Histoire générale (sans préhistoire)	Navel of the World: Cross-Cultural Encounters at the Church of the Holy Sepulchre, 1400-1600

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Hofer	Matthias	Universität Zürich	Sciences de la communication et des médias	Older adults' media use and well-being: Media use as a resource in the process of healthy aging
Jeon	Jaeyoung	Université de Lausanne	Sciences des religions, théologie	A Bible Born out of Conflicts: a Literary and Socio-historical Study of the Aaronide/Zadokite and Levite Scribal Debates in the Persian Period
Jiskra	Martin	Universität Basel	Autres secteurs des sciences de l'environnement	Seasonal impact of vegetation on atmospheric elemental mercury dry deposition
Junge	Till	EPF Lausanne	Autres secteurs des sciences de l'ingénieur	Open-Source Platform for Efficient FFT-based Continuum Mesoscale Modelling
Kedziorek	Magdalena	EPF Lausanne	Mathématiques	Exploring Equivariant Homotopy Theory
Kilcher	Samuel	ETH Zürich	Microbiologie expérimentale	Synthetic Bacteriophage Platform for Diagnostics and Control of Drug-Resistant Pathogenic Bacteria
Kling	Sabine	ETH Zürich	Autres secteurs des sciences de l'ingénieur	Measuring local corneal biomechanical properties by multi-frequency vibrography: Moving towards an earlier diagnosis of pathologies and personalized computer simulations
Kumpulainen	Tatu	Université de Genève	Chimie physique	Excited-State Proton Transfer in Solutions and at Biologically Relevant Interfaces
Kurpisz	Adam Andrzej	ETH Zürich	Mathématiques	Theory and Applications of Linear and Semidefinite Relaxations for Combinatorial Optimization Problems
Labidi-Galy	Sana Intidhar	Université de Genève	Recherches expérimentales sur le cancer	Impact of oophorectomy on breast cancers in BRCA1 mutation carriers
Langlet	Fanny	Université de Lausanne	Neurophysiologie et neurologie cérébrale	Tanycyte glucose-sensing: dissection of specific subpopulation mechanisms and their implication in the control of energy metabolism
Laufkötter	Charlotte	Universität Bern	Autres secteurs des sciences de l'environnement	Global interactions between microplastics and marine ecosystems
Lebreton	Maël	Université de Genève	Neurophysiologie et neurologie cérébrale	A neuro-computational investigation of value precision

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Lehner	Flavio	ETH Zürich	Climatologie, physique de l'atmosphère, aéronomie	Constraining dynamic and thermodynamic drivers of mid-term regional climate change projections for Northern mid-latitudes
Li	Jin	Universität Bern	Cardio-angiologie	Autoimmune Channelopathies of the Heart
Lodha	Yash	EPF Lausanne	Mathématiques	Amenability, geometric group theory and low dimensional dynamics
Lorenzini	Jasmine Choko	Université de Genève	Sciences politiques	Political Consumerism in Switzerland: Linking Food Consumption, Conceptions of Citizenship, and Political Engagements
Marchioro	Arianna	EPF Lausanne	Chimie physique	Understanding Photoinduced Processes at Semiconductor/Aqueous Interfaces by Surface-Specific Spectroscopic Techniques
Marthot-Santaniello	Isabelle	Universität Basel	Sciences de l'Antiquité	Reuniting fragments, identifying scribes and characterizing scripts: the Digital paleography of Greek and Coptic papyri.
Matusz	Pawel	HES-SO Sierre	Psychologie appliquée	Understanding the role of attention in visual rehabilitation: Amblyopia as a model
Mauger	Oriane	Universität Basel	Biologie moléculaire	Exploration of novel pathways for rapid gene regulation during neuronal plasticity
Momotenko	Dmitry	ETH Zürich	Chimie physique	Single Entities at High Magnification: Mapping, Measuring and Manipulating Nanoparticles
Mostowlansky	Till	IHEID Genève	Autres langues	Genealogies of Development: Shia Muslim Giving Across Asia
Müller-Suleymanova	Dilyara	ZHAW Zürich	Ethnologie	Trasnationalisation of conflicts: youth from ex-Yugoslav and Turkish diasporas in Switzerland and their relation to homeland conflicts
Murer	Cristina	Universität Bern	Archéologie	Transformation von Stadt, Staat und Grab: spätantike Grabplünderungen und Wiederverwendung von Grabplastik
Nogly	Przemyslaw	ETH Zürich	Biophysique	A three-dimensional movie of the structural changes in a membrane chloride pump revealed by X-ray Free Electron Laser pulses.
Olias	Philipp	Universität Bern	Biologie cellulaire, cytologie	Theileria effectors transforming host cells into cancer-like cells
Paillard	Elodie	Universität Basel	Sciences de l'Antiquité	Le Théâtre grec en Italie durant l'époque républicaine
Pfister	Eugen	HK Bern	Histoire générale (sans préhistoire)	Horror – Game – Politics. Die visuelle Rhetorik politischer Mythen in digitalen Horrorspielen



Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Pflaum	Sonja	Universität Basel	Sciences juridiques	Wiedergutmachung – eine rechtsvergleichende und empirische Untersuchung zu Art. 53 StGB
Potarca	Gina Felicia	Université de Genève	Sociologie	How Does the Internet Change Modern Romance?
Rademaker	Louk	Université de Genève	Physique de la matière condensée	Sluggish quantum matter: slow dynamics in many-body localized and glassy systems
Ribeiro de Resende Alves	Marcelo	Université de Neuchâtel	Mathématiques	Entropies of Reeb flows and its relations to symplectic topology and Hamiltonian dynamics
Riemer	Stefanie	Universität Bern	Ethologie	Reward sensitivity in dogs – risk factor for addictive behaviour and key to trainability
Rösli	Lukas	Universität Zürich	Autres langues	Gedächtniskultur im Paratext – Textträger alt nordischer Prosahandschriften
Rottmann	Michael	FHNW Basel	Histoire de l'art	Automatisierte Innovationen. Maschinenkünste des 20. und 21. Jahrhunderts im Spannungsdreieck von Subjekt, Medium und Prozess und ihre Beiträge zu Kreativitätsdiskursen
Ruiz de Elvira Carrascal	Jacobo	Universität Bern	Physique des particules élémentaires	Dispersive techniques for light meson interactions and spectroscopy
Rybkin	Vladimir	Universität Zürich	Chimie physique	Condensed-Phase Quantum Chemistry via Embedding Theory
Saha	Arunabha	Université de Genève	Physique théorique	The Large D Black Hole Membrane Paradigm
Salvi	Nicola	ETH Zürich	Chimie physique	Protein dynamics and disorder in the activation of DNA transcription
Schild	Axel	ETH Zürich	Chimie physique	Exact Factorization Approach to the Dynamics of Molecules in Strong Laser Fields
Schneider	Maude	Université de Genève	Psychologie	Towards an embodied and ecological understanding of social impairments in neurodevelopmental disorders
Schwiedrzik	Johann Jakob	EMPA Dübendorf	Sciences des matériaux	Nanoscale deformation mechanisms and yield prediction of lamellar bone
Siclari	Francesca	Université de Lausanne	Neurologie, psychiatrie	Is anybody there? A systematic assessment of consciousness and environmental disconnection in sleepwalkers
Silva Coutinho	Rafael	Universität Zürich	Physique des particules élémentaires	Flavour anomalies and matter-antimatter asymmetry in b-baryon decays

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Simmler	Linda	Université de Genève	Neurophysiologie et neurologie cérébrale	Mechanism-Based Reversal of Pathological Synaptic Plasticity in Obsessive-Compulsive Disorder as Strategy for Pharmacological Treatment
Šolomek	Tomáš	Universität Basel	Chimie organique	Three-Dimensional Molecular Electron Acceptors for Efficient Electron-Transporting Materials
Stoeck	Christian	ETH Zürich	Autres secteurs des sciences de l'ingénieur	MR guided biomechanical modelling of the heart – a novel tool to predict remodelling in heart failure
Szulagyi	Judit	Universität Zürich	Astronomie, astrophysique et recherche spatiale	Catching Planets in Formation: The Role of Circumplanetary Disks
Tarlazzi	Caterina	Université de Genève	Philosophie	Naturae. Natural Kinds in the Teaching of Peter Abelard and His Rivals, c. 1090-1160
Traber	Denise	Universität Luzern	Sciences politiques	The divided people: polarization of political attitudes in Europe
Uecker	Hildegard	ETH Zürich	Ecologie	The role of plasmids in bacterial adaptation
Vagni	Giacomo	Université de Lausanne	Langues romanes	Lirici del Cinquecento da Crescimbeni a Croce. Il petrarchismo come mito fondativo della modernità letteraria italiana
Valentini	Martina	Université de Genève	Microbiologie expérimentale	RNA-binding proteins as multifaceted regulators of Pseudomonas aeruginosa lifestyles
von Rohr	Fabian	Universität Zürich	Chimie inorganique	Chemistry and Physics of Nitride Based Materials
Zaugg	Franziska	Universität Bern	Histoire générale (sans préhistoire)	Eine „longue durée“ der Gewalt? – Kriegsversehrte Gesellschaften in Südosteuropa
Zerbi	Valerio	ETH Zürich	Neurophysiologie et neurologie cérébrale	Pharmacogenetic fMRI in brain circuits underlying social motivation and repetitive behavior

#### Ambizione 2016: 9<sup>ème</sup> mise au concours (71 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Armas	Jacome	Universität Bern	Physique théorique	Effective theories for black holes, soap bubbles and biophysical membranes

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Asmussen	Tina	ETH Zürich	Histoire générale (sans préhistoire)	Hort – Laboratorium – Kunstkammer: Eine Materialgeschichte des Bergbaus in der Frühen Neuzeit, 1470-1630
Aterianus	Alice	Université de Lausanne	Ethnologie	Incorporer « l'africanité ». Circulations, créations et catégorisations identitaires dans la pratique des danses africaines (France, Suisse)
Bastiaansen	Josefina	Université de Lausanne	Cardio-angiologie	Translational hyperpolarized metabolic imaging of the heart for the quantification of metabolic changes in chemotherapy-induced cardiotoxicity
Betz	Matthias	Universität Basel	Endocrinologie clinique	Influence of glucocorticoids on human brown adipose tissue and cold induced thermogenesis
Bibow	Stefan	Universität Basel	Biophysique	Structure, function and dynamics of the Ragulator multiprotein complex
Blazek	Jonathan	EPF Lausanne	Astronomie, astrophysique et recherche spatiale	Accurate Cosmology with Observations of Galaxies
Bruand	Emilie	Universität Bern	Géochimie	The evolving continental crust: contributions from the accessory mineral archive
Capogrosso	Marco	Université de Fribourg	Autres secteurs des sciences de l'ingénieur	Design of epidural implants and electrical stimulation protocols for the recovery of ARM control after spinal cord injury. (D-ARM)
Collet	Tinh-Hai	Université de Lausanne	Endocrinologie clinique	The metabolic effects and mechanisms of time restricted feeding in individuals with metabolic syndrome
Crozier	Sophie	Université de Lausanne	Neurophysiologie et neurologie cérébrale	Role of guidance proteins in the development of afferent inputs to hypothalamic neurons involved in energy homeostasis: influence of maternal obesity
De Cosa	Annapaola	Universität Zürich	Physique des particules élémentaires	Search for Dark Matter particles in semi-visible jets at the Large Hadron Collider
Diaconescu	Andreea	Universität Basel	Neurophysiologie et neurologie cérébrale	Neurocomputational Modelling of Delusions and its Clinical Utility for Psychosis
Diviani	Nicola	Universität Luzern	Sciences de la communication et des médias	New insights into the concept of critical health literacy: Development and validation of a measure of health information appraisal skills.

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Filipowicz Sinnreich	Magdalena	Universität Basel	Immunologie, immunopathologie	Role of MAIT cells in liver diseases and liver fibrogenesis
Franke	Felix	ETH Zürich	Neurophysiologie et neurologie cérébrale	Position Dependence of Retinal Computation
Furrer	Fabian	ETH Zürich	Physique théorique	Theoretical Foundations of Practical High-Security and Long-Distance Continuous-Variable Quantum Key Distribution
Garzia	Diego	Universität Luzern	Sciences politiques	Personalization of Politics between Television and the Internet
Genschow	Oliver	Universität Basel	Psychologie	The role of anticipative processes in social behavior
Gomez de Agüero Tamargo	Mercedes	Universität Bern	Immunologie, immunopathologie	Role of maternal microbiota and aryl hydrocarbon receptor signalling in establishing neonatal skin homeostasis
Groner	Anna	ETH Zürich	Recherches expérimentales sur le cancer	Dissecting the role of the epigenetic reader function of TRIM24 in driving endocrine therapy-resistant prostate cancer
Grosser	Tobias	ETH Zürich	Informatique	Automatized compilation of sequential software to a diverse set of hardware accelerators
Grosz	Mirina	Universität Basel	Sciences juridiques	Staatliche Aufsicht über Private (Arbeitstitel)
Hartmann	Matthias	Universität Bern	Psychologie	Exploring the numerical mind by eye-tracking: Brain, cognition and action
Isogai	Shin	Universität Basel	Recherches sur les structures	Elucidating allosteric signal transmission in the beta1-adrenergic receptor
Jacquin	Jérôme	Université de Neuchâtel	Langues romanes	E-STAMP. Le positionnement épistémique au prisme de la multimodalité
Jayaraman	Rajeswari	EPF Lausanne	Physique de la matière condensée	Real time magnon dynamics for next generation magnonic devices
Johnson	Daniel	EPF Lausanne	Physique des particules élémentaires	A New Virtual Laboratory for Exotic Particle Searches
Kang	Joohyun	Universität Zürich	Biologie moléculaire	Establishing a system for the identification of Plant ABC transporter substrates and mechanisms
Katayev	Dmitry	ETH Zürich	Chimie organique	Development of Novel Iron-Catalyzed Oxidative Transformations of Inert C(sp <sup>3</sup> )-H Bonds

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Kehr	Janina	Universität Bern	Ethnologie	Austerity Medicine. Precarious Healthcare in Contemporary Spain
Khan	Adil	Universität Basel	Neurophysiologie et neurologie cérébrale	Circuit mechanisms of cognitive control and their deficiencies in mouse models of schizophrenia
King	Georgina	Universität Bern	Géochronologie	Constraining the role of erosion in feedbacks between tectonics and climate: Quaternary evolution of the Japanese Alps
Koller	Ariane	Universität Bern	Histoire de l'art	Stoffe der Trauer - Stoffe der Macht. Objekte der Repräsentation in der höfischen Funeralkultur der Frühen Neuzeit
Kühne	Lars	Universität Basel	Mathématiques	Diophantine and Arithmetic Geometry
Kundu	Dipan	ETH Zürich	Sciences des matériaux	Design and Development of Novel Solid Electrolytes for High Energy Batteries
Langkau	Julia	Université de Fribourg	Philosophie	Learning from Literary Narratives
Lardo	Carmela	EPF Lausanne	Astronomie, astrophysique et recherche spatiale	Globular clusters or dwarf galaxy relics : the mystery of multiple populations
Lopez Mejia	Isabel Cristina	Université de Lausanne	Biologie moléculaire	Role of the SR protein SRSF1 in the integration of gene expression in adipose tissue during metabolic syndrome
Malvoisin	Benjamin	Université de Lausanne	Géologie	Mineralogical processes and rate of serpentinization at mid-ocean ridges - Experimental and numerical modelling of the couplings between reaction, deformation and fluid flow
Mégevand	Pierre	Université de Genève	Neurophysiologie et neurologie cérébrale	The neuronal mechanisms underlying the perception of auditory and visual speech
Milekovic	Tomislav	Université de Genève	Autres secteurs des sciences de l'ingénieur	Error-adaptive decoding algorithms for stable and independent brain-computer interfaces
Mitrano	Denise	EAWAG Dübendorf	Autres secteurs des sciences de l'environnement	The path of microplastics to the environment: fate and transport in waste water treatment systems
Montorsi	Francesco	Universität Zürich	Langues romanes	Écrire les Anciens. Enquête littéraire et historique sur les représentations du passé dans la France médiévale (1150-1350).

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Natterer	Fabian Donat	EPF Lausanne	Physique de la matière condensée	Single atom and molecule radio wave absorption spectroscopy
Navas Guzmán	Francisco Jesús	MeteoSwiss	Climatologie, physique de l'atmosphère, aéronomie	Study of aerosol hygroscopic effect on optical and microphysical properties by means of remote sensing techniques (AEROHYGROPRO)
Nicoli	Miriam	Universität Bern	Histoire Suisse	Traces de vie vécue. Parcours d'hommes et de femmes au prisme des écrits du for privé (Tessin et Grisons – fin XVIIe - première moitié XIXe siècles)
Nyström	Gustav	ETH Zürich	Sciences des matériaux	Nanofiber Aerogels – from a Fundamental Understanding of Structure towards Transparent Flexible Insulation and Functional Hybrids
Payne	Annick	Universität Bern	Sciences de l'Antiquité	A History of Early Alphabetic Writing in Anatolia
Penner	Orion	EPF Lausanne	Economie politique	Untangling Researcher Mobility, Productivity, and Knowledge Fit
Petrow	Ian	ETH Zürich	Mathématiques	Arithmetic Statistics and Trace Formulas
Piscuoglio	Salvatore	Universität Basel	Recherches expérimentales sur le cancer	The landscape of long non-coding RNAs in triple negative breast cancers
Pistone	Mattia	Université de Lausanne	Géologie	Petrophysics of the Melt Connectivity Transition: Petrological, Rheological, and Seismic Characterisation of the Continental Moho
Puig Navarro	Albert	Universität Zürich	Physique des particules élémentaires	Probing the Standard Model of particle physics with rare beauty decays
Ramsey	Kathryn	Universität Bern	Pédiatrie	Impact of Early Lung Physiology, Viral Infections and Microbiome on the Development and Progression of Lung Disease in Children with Cystic Fibrosis
Sandamirskaya	Yulia	Universität Zürich	Informatique	Embodied Long-Term Memory for Cognitive Neuromorphic Agents
Schmid	Evelyne	Universität Basel	Sciences juridiques	Die pflichtwidrig unterlassene Umsetzung von völker- und europarechtlichen Normsetzungsaufträgen im schweizerischen Recht
Schwab	Fabienne	Université de Fribourg	Sciences de l'environnement	Enhancing Legume Defenses: Exploring Bioinspired Nanomaterials to Support Plant Health
Stanley	Claire	Agroscope Zürich	Autres secteurs des sciences de l'ingénieur	Microbiome-on-a-Chip: New frontiers in plant-microbiota research

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Sternai	Pietro	Université de Genève	Géologie	Linking deep Earth and surface dynamics: the effects of erosion on magma productivity
Szöcsik	Edina	Universität Basel	Sciences politiques	Voter Turnout in Third-Wave Democracies
Tackmann	Björn	ETH Zürich	Informatique	Secure-by-Design Protocols for Secure Communication over the Internet
Tinti	Irene	Université de Genève	Autres langues	Plato in Ancient Armenian: Who Translated the Extant Dialogues, and When?
Trenholm	Stuart	FMI Basel	Neurophysiologie et neurologie cérébrale	Brain rewiring after vision loss and rehabilitation
Tritten	Lucienne	Universität Zürich	Microbiologie médicale	Secretory microRNAs of nematode parasites: small molecules for great success?
Ulrich	Yuko	Université de Lausanne	Ecologie	Group Composition and Disease Susceptibility in Ant Societies
Valtorta	Daniele	Universität Zürich	Mathématiques	Singularities of minimal surfaces
Walker	Mirella	Universität Basel	Psychologie	Moral Character Matters. How Act, Actor, and Victim (Facial) Characteristics Impact Moral Judgments
Wilts	Bodo	Université de Fribourg	Physique de la matière condensée	Smart Optical Materials Inspired by Nature
Zoppe	Justin	Université de Fribourg	Chimie organique	Symmetric and Asymmetric Twisted Nanorods with End-Tethered Polymer Chains
Zurell	Damaris	WSL Birmensdorf	Ecologie	SCODA - Scaling from individual interactions to community dynamics in avian assemblages

**Ambizione 2015: 8<sup>ème</sup> mise au concours (67 subsidies)**

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Alistarh	Dan	ETH Zürich	Informatique	Algorithms for a Computational Revolution
Ayaz	Asli	Universität Zürich	Neurophysiologie et neurologie cérébrale	Sensorimotor integration in head-restrained mice during exploratory locomotion

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Baldauf	Tobias	Université de Genève	Astronomie, astrophysique et recherche spatiale	Understanding the History and Composition of the Universe using its Large Scale Structure
Bassolino	Michela	EPF Lausanne	Psychologie	Boosting embodiment bypassing the body: a new approach based on transcranial magnetic stimulation and virtual reality
Böhne	Astrid	Universität Basel	Zoologie	The role of sex determination in an adaptive radiation of cichlid fishes
Bordoli	Mattia	ETH Zürich	Biologie moléculaire	Investigating the biological function of the first secreted tyrosine kinase in liver regeneration
Born	Sabine	Université de Genève	Psychologie	Space without motion - Judging object locations and distance in the absence of movement
Braakman	Floris	Universität Basel	Physique de la matière condensée	Ultrasensitive detection of quantum phenomena in nanowire hybrids
Braschler	Thomas	Université de Genève	Génie mécanique	In vivo perfused and stimulated scaffolds for neural cell therapy
Bruno	Flavio	Université de Genève	Physique de la matière condensée	Artificial heterostructures of strongly correlated oxides investigated by ARPES
Cavelti-Weder	Claudia	Universität Basel	Endocrinologie	Activation and metabolism status of macrophages in metabolic disease and potential impact of tyrosine kinase inhibitors (TKIs)
Collins	Ben	ETH Zürich	Biochimie	The host-pathogen protein interactome of Mycobacterium tuberculosis
Cougnon	Fabien	Université de Genève	Chimie organique	Molecular knots - Self-assembly and functionalization of topologically complex molecules
Couttenier	Mathieu	Université de Genève	Economie politique	Income Shocks and the Diffusion of Conflicts: Empirical Evidence and Policy Implications
Dan-Glauser	Elise	Université de Lausanne	Psychologie	Affective consequences of emotion regulation relying on situation selection
Engelke	Sebastian	EPF Lausanne	Mathématiques	Risk and Complex Events: from Probability to Applications
Facini	Laura	Université de Genève	Langues romanes	"Da l'uno a l'altro stilo". Prosody, rhythm and syntax of lyric poetry before Dante.
Fässler	Katrin	Université de Fribourg	Mathématiques	Intrinsic rectifiability and mapping theory on the Heisenberg group



Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Foresti	Loris	MeteoSwiss	Météorologie	Precipitation attractor from radar and satellite data archives and implications for seamless very short-term forecasting
Garçon	Marion	ETH Zürich	Géochimie	Using Archean sedimentary rocks to understand how the first continents were formed
Gaume	Johan	EPF Lausanne	Autres secteurs des sciences de l'environnement	Multiscale analysis and modeling of slab avalanche release processes
Hagmann	Jonas	ETH Zürich	Sciences politiques	Securing the city: The global politics and practices of urban protection
Hollis	Brian	EPF Lausanne	Génétique	The challenges of a shared genome: an evolutionary genetic approach to understanding sexually antagonistic selection
Huber	Marcus	Université de Genève	Physique théorique	Quantum Information in Thermodynamics
Imperiali	Christophe	Universität Bern	Langues romanes	Mesure et démesure du temps. La saisie de la durée dans les formes poétiques, en regard des formes musicales (1820-1920)
Jandus	Camilla	Université de Lausanne	Recherches expérimentales sur le cancer	Human innate lymphoid cells (ILCs): from their understanding at single cell level to defining their role in human cancer
Koren	Elad	IBM Research GmbH	Sciences des matériaux	Accurate manipulation and control for studying 2D layered materials stacks
Krebs	Arnaud	FMI Basel	Biologie moléculaire	Single molecule characterization of transcription factor binding at mouse cis-regulatory regions.
Lamoth	Frédéric	Université de Lausanne	Microbiologie médicale	Modeling the Hsp90-Hsp70 Network of Antifungal Resistance in <i>Aspergillus fumigatus</i>
Leuthold	Julien	ETH Zürich	Géochimie	Fusion de gabbro dans la croûte océanique inférieure, le long des rides océaniques, et son effet sur le liquide mantellique qui la percolent
Manzotti	Paola	Université de Lausanne	Géochronologie	Monazite behaviour in polycyclic rocks: a tool for better constraining the thermo-tectonic evolution of the Alpine belt
Martin	Lucie	Université de Genève	Archéologie	Life in the mountains. Prehistoric People-Plant Interactions in the Alps
Massa	Francesco	Université de Genève	Sciences de l'Antiquité	Des «mystères» grecs et romains aux «mystères» chrétiens ? Un nouveau regard sur les contacts religieux du monde impérial romain

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Matasci	Damiano	Université de Lausanne	Histoire générale (sans préhistoire)	De la régulation au « développement ». Modernisation, accès au savoir et politiques éducatives dans l'âge global (1929-1961)
Mensah	Amewu Antoinette	ETH Zürich	Climatologie, physique de l'atmosphère, aéronomie	Soot Particle Ageing Cloud Effects - SPACE
Meyer	Sara Christina	Universität Basel	Recherches expérimentales sur le cancer	Mechanisms and targeting of oncogenic MAPK signaling in myeloid malignancies
Meyer	Matthias	Universität Bern	Cardio-angiologie	Role of G Protein-coupled Estrogen Receptor for Vascular Oxidative Stress and Insulin Resistance
Mikaberidze	Alexey	ETH Zürich	Ecologie	Epidemiology of major wheat diseases: using eco-evolutionary models to learn from epidemic and genomic data
Müller	Sean	Universität Bern	Sciences politiques	When Regions Decide: The politics of shared rule in Switzerland, Germany, the US and Canada
Natale	Simone	Università della Svizzera italiana	Sciences de la communication et des médias	Mind Reading Computers: A Historical Approach to the Imaginary of Digital Media
Natalucci	Giancarlo	Universität Zürich	Pédiatrie	Impact of intrauterine growth restriction on brain development and consequences for later neurodevelopmental outcome: a prospective cohort study.
Osto	Elena	ETH Zürich	Pathophysiologie	The communication between the cardiovascular system, the gut and the adipose tissue: from molecular mechanisms to targeted therapeutic approaches against cardiovascular disease in diabetes and obesity
Personnic	Nicolas	Universität Zürich	Microbiologie expérimentale	Hétérogénéité phénotypique de Legionella pneumophila lors d'infection de cellules phagocytaires
Pillepich	Annalisa	EPF Lausanne	Astronomie, astrophysique et recherche spatiale	Multi-scale Structure Formation for Cosmological Insight: from Galactic Archaeology to Galaxy Clusters
Prins	Ferry	ETH Zürich	Chimie physique	Multiresonant Bull's Eyes for Plasmonic Surface Enhancement
Rey	Jeanne	Pädagogische Hochschule Fribourg	Ethnologie	From the Alps to the world: Transnationalisation of Swiss private education

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Rüegg	Janine	EPF Lausanne	Hydrologie, limnologie, glaciologie	Predicting Patterns in Stream Foodweb Dynamics from Resource Subsidy and Environmental Fluctuations
Saffirio	Chiara	Universität Zürich	Mathématiques	Derivation of the Boltzmann equation from classical and quantum dynamics
Santello	Mirko	Universität Zürich	Neurophysiologie et neurologie cérébrale	Cortical mechanisms controlling migraine pain
Santiago Cuellar	Julia	Université de Lausanne	Biologie moléculaire	Molecular mechanisms of receptor kinases in floral shedding and cell wall signaling
Scarvaglieri	Claudio	Université de Neuchâtel	Langues germaniques et anglaises	Urban Multilingualism in Switzerland: Communicative practices and language ideologies
Schikorra	Armin	ETH Zürich	Mathématiques	Analysis and Geometry of nonlocal differential equations
Schneider	Aurel	ETH Zürich	Astronomie, astrophysique et recherche spatiale	Exploring the Dark Matter Sector with Astronomical Surveys
Schwander	Hanna	Universität Zürich	Sciences politiques	Disentangle the modern gender vote gap – a refinement of women's political alignment
Shimobayashi	Mitsugu	Universität Basel	Biochimie	Identification of an mTORC2-regulated adipokine that improves $\beta$ cell function in diabetes
Stein	Sokrates	Universität Zürich	Cardio-angiologie	Exploration of transcriptional corepressor networks in atherosclerosis
Toll Riera	Macarena	Universität Zürich	Génétique	The evolution of innovations in cold-adapted bacteria
Trefzer	Claudia	ETH Zürich	Chimie organique	Trojan Horses for Targeted Drug Delivery into Mycobacteria
Trück	Johannes	Universität Zürich	Immunologie, immunopathologie	Functional characterisation of the B cell compartment in children with antibody deficiency and following bone marrow transplantation
Ubrig	Nicolas	Université de Genève	Physique de la matière condensée	Optoelectronics of transition metal dichalcogenides: Physics and devices
Urwyler	Olivier	Universität Zürich	Biologie cellulaire, cytologie	Mechanisms of developmental synaptogenesis and of adult synapse dynamics in the CNS
Witz	Guillaume	Universität Basel	Microbiologie expérimentale	Uncovering basic regulatory mechanisms of the E. coli cell cycle by high-throughput single-cell time-lapse microscopy

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Wyrzykowski	Mateusz	EMPA Dübendorf und EPF Lausanne	Sciences des matériaux	Role of water redistribution in creep of concrete
Yarema	Maksym	ETH Zürich	Chimie inorganique	Colloidal nanocrystals of intermetallic compounds and alloys for phase-change memory applications
Zhang	Yang	ETH Zürich	Physique des particules élémentaires	Multi-loop Scattering Amplitudes via Algebraic Geometry
Zosso	Dominique	Universität Bern	Informatique	Beltrami on Graphs: Image Segmentation and Data Clustering with Minimal Surfaces
Züst	Tobias	Universität Bern	Ecologie	Community consequences of novel toxic plant defenses: convergent evolution of cardenolides and alkaloids

#### Ambizione 2014: 7<sup>ème</sup> mise au concours (60 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Aiyangar	Ameet	EMPA Dübendorf	Génie mécanique	Integrating Dynamic In Vivo Imaging And Computational Modelling: A New Paradigm To Study Lumbar Spine Biomechanics
Ariga	Tomoko	Universität Bern	Physique des particules élémentaires	Development of next generation emulsion particle detectors and readout devices
Battegay	Caspar	Université de Lausanne	Langues germaniques et anglaises	A History of Possibility. Utopia and Diaspora in the German-Jewish Imagination
Berth	Christiane	Universität Bern	Histoire générale (sans préhistoire)	Telecommunication, modernity and social change. A social and cultural history of the telephone in Mexico, 1930-1996
Bietti	Lucas M.	Université de Neuchâtel	Psychologie	The Embodied Communication of Memories: Interaction, Evolution and Learning in Social Contexts
Bubenhofer	Noah	Universität Zürich	Langues germaniques et anglaises	Visual Linguistics: Fundamentals of Visualizing Language Data
Casacuberta Arola	Nuria	ETH Zürich	Océanographie	A new multitracer approach in Oceanography: combining U-236 with conventional anthropogenic radionuclides in the Arctic and Atlantic Oceans

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Castets	Perrine	Universität Basel	Biologie moléculaire	Importance of the mTORC1 signaling in the maintenance and the plasticity of neuromuscular junctions: involvement of the pathway in the control of autophagy and the regulation of class II histone deacetylases
Cazzoli	Dario	Universität Bern	Neurologie, psychiatrie	Interactions between attentional networks and their influence on perception: a project in healthy subjects and hemispatial neglect patients
Clair	Carole	Université de Lausanne	Endocrinologie clinique	Diabetes and Smoking Cessation: a Gender Oriented Intervention Trial
Corpataux	Jean-François	Université de Fribourg	Histoire de l'art	Nœuds & plis. Contribution à l'étude des « parerga » dans l'art de la Renaissance
Crivellin	Andreas	PSI Villigen	Physique des particules élémentaires	Flavour Physics beyond the Standard Model
Dahl	Christoph	Université de Neuchâtel	Anthropologie, primatologie	A novel approach on animal cognition
De Boever	Eva	Université de Fribourg	Géologie	QuantiCarb@Spring – processes and quantification of CaCO <sub>3</sub> fabric-specific layering at hot springs and its environmental implications
Depeursinge	Adrien	EPF Lausanne	Informatique	Highly Adaptive Computational Models of Biomedical Tissue in Radiological Images: Digital Tissue Atlases and Correlation with Genomics (MAGE)
Dimartino	Alessia	Université de Genève	Archéologie	Image et parole. Communication visuelle et portrait verbal des monuments funéraires en Grèce ancienne
Egli	Adrian	Universität Basel	Immunologie, immunopathologie	Blockade of interferon- $\lambda$ of signalling – a novel class of adjuvants to improve vaccine-induced antibody responses
Faenza	Yuri	EPF Lausanne	Mathématiques	Tight formulations of 0-1 problems
Faivre-Carron	Delphine	Universität Zürich	Philosophie	Santa Maria Novella et la commune de Florence (1293-1313/4). Enquête philosophique sur les écrits politiques des dominicains florentins contemporains de Dante
Fort	Alexandre Matthieu	Université de Genève	Génétique	Genomic regulation and function of nuclear non-coding RNAs transcribed from human enhancer regions
Greiner	Nicolas	Universität Zürich	Physique théorique	Automated calculations of electroweak corrections at the LHC

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Gründemann	Jan	FMI Basel	Neurophysiologie et neurologie cérébrale	Mapping the neuronal code of fear
Höfler	Stefan	Universität Zürich	Langues germaniques et anglaises	The textual structure of articles of law - Text-linguistic models in the service of legislation
Jacopin	Gwénolé	EPF Lausanne	Physique de la matière condensée	Ultrafast dynamics of wide band gap nanostructures for highly efficient LEDs
Klopfstein	Seraina	Universität Bern	Zoologie	Phylogeny, total-evidence dating, and the impact of parasitoid lifestyle on the diversification of pimpliforme parasitoid wasps (Hymenoptera, Ichneumonidae)
König	Michael	Universität Zürich	Economie politique	The Coevolution of Economic Networks and Behavior: Theory, Empirics and Policy Implications
Koss	Michael	ETH Zürich	Astronomie, astrophysique et recherche spatiale	Uncovering Hidden Black Hole Growth
Krattinger	Simon	Universität Zürich	Génétique	Functional characterization of broad-spectrum disease resistance in cereals
Kühn	Jonas	ETH Zürich	Astronomie, astrophysique et recherche spatiale	Science-Plane Holographic Coherent Wavefront Sensor & Digital Adaptive Coronagraphy for Extremely-high-contrast Direct Imaging of Exoplanets
Lupi	Matteo	ETH Zürich	Géologie	Earthquake-induced fault reactivation at oblique subduction zones: from cause to effect
Lüpold	Stefan	Universität Zürich	Ecologie	Genetic variation in quality and sexual selection on condition-dependent traits
Malaspinas	Anna Sapfo	Universität Bern	Génétique	Characterizing migrations with modern and ancient genomic data: the limits of the Polynesian expansion
Martin-Olmos	Cristina	CSEM Neuchâtel	Microélectronique, optoélectronique	Smart engineered substrates for high throughput mechanobiology
Mehling	Matthias	Universität Basel	Immunologie et immunopathologie clinique	Microfluidics-based analysis of human T cell migration on a single cell level

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Meier	Matthias	ETH Zürich	Géochimie	Traces of two recent cosmic events in terrestrial sediments
Mertens	Joachim Carl Philipp	Universität Zürich	Cancérologie clinique	Sensitization of Activated Stromal Fibroblasts for Apoptosis – Mechanisms and Therapeutic Potential in Cancer and Fibrosis
Meuwly	Nathalie	Université de Fribourg	Psychologie	What contributes to healthy romantic relationships? An investigation of heterosexual, lesbian, and gay male couples
Mitri	Sara	Université de Lausanne	Microbiologie expérimentale	The evolution of social interactions in microbial communities
Monney	Claude	Universität Zürich	Physique de la matière condensée	Time- and angle-resolved photoemission spectroscopy on correlated materials
Montero de Espinosa	Lucas	Université de Fribourg	Chimie organique	Simplified supramolecular polymers: from fundamental studies to a new generation of reversible two-component resins
Neukom	Raphael	Universität Bern	Climatologie, physique de l'atmosphère, aéronomie	Detection of human and natural influences on the climate system: regional insights from the past Millennium
Noti	Mario	Universität Bern	Immunologie, immunopathologie	The Role of the Microbiota in Food-induced Allergic Disorders
Parmigiani	Andrea	ETH Zürich	Géophysique	The fate of exsolved volatiles in shallow magma reservoirs: flow behavior and consequences on crystal mush reactivation and magma eruptability
Pascoli	Vincent	Université de Genève	Neurophysiologie et neurologie cérébrale	Synaptic basis of eating disorders
Payne	Joshua	Universität Zürich	Génétique	The evolution and robustness of transcription factor binding sites
Rothen	Nicolas	Universität Bern	Psychologie	Natural Foundations of Enhanced Memory
Roulin	Anne	Universität Zürich	Ecologie	Population genomics and local adaptation: genome wide analysis of transposable elements and natural population evolutionary trajectories
Samson	Andrea	Université de Genève	Psychologie	Emotion Dysregulation in Psychopathology: Pathway to an Innovative Neuroconnectivity-Informed Intervention
Santamaria-Martínez	Albert	Université de Fribourg	Recherches expérimentales sur le cancer	Cancer Stem Cells and metastasis: control of cell fate decisions through crosstalk with their lineage and the microenvironment

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Schmid	Petra	Universität Bern	Psychologie	Power effects on decision-making: The role of motivational and cognitive processes
Siegl	Petr	Universität Bern	Mathématiques	Spectral analysis of non-self-adjoint operators with applications in mathematical physics
Sladojevich	Filippo	ETH Zürich	Chimie organique	Halogen bonding catalysis
Soleymani	Mohammad	Université de Genève	Informatique	Sensing Knowledge Emotions in Multimedia Discovery
Stojanovic	Nenad	Universität Luzern	Sciences politiques	Racist voters and minority candidates: a conceptual puzzle and an empirical challenge with a focus on the Swiss case
Van Heeswijk	Ruud	Université de Lausanne	Cardio-angiologie	Molecular Imaging of Perfluorocarbons for the Quantitative Characterization of Atherosclerosis Progression
Vergauwe	Evie	Université de Genève	Psychologie	Behavioral and neural basis of high-speed retrieval in working memory
Vuille	Joëlle	Université de Neuchâtel	Sciences juridiques	Forensic science as a contributor to miscarriages of justice in Western
Wandeler	Gilles Olivier	Universität Bern	Médecine interne	HIV and viral hepatitis co-infection: informing management strategies through dedicated cohort studies in sub-Saharan Africa and Switzerland
Wohlfeld	Krzysztof	ETH Zürich / PSI Villigen	Physique de la matière condensée	Unravelling Exotic Properties of Collective Excitations in Correlated Systems
Woods	Kerry	Universität Bern	Biologie cellulaire, cytologie	Manipulation of the host by Theileria: Using BioID to discover parasite-dependent protein interaction networks

#### Ambizione 2013: 6<sup>ème</sup> mise au concours (60 subsides)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Akrap	Ana	Université de Genève	Physik de la matière condensée	Charge dynamics in topological insulators
Altwickler	Tilmann	Universität Basel	Sciences juridiques	Transnational Public Security Law
Arrigo	Nils	Université de Lausanne	Botanique	Functional genomics of adaptive introgression: experimental transfer of zinc resistance between Arabidopsis halleri and A. lyrata.
Aybek Rusca	Selma	Université de Genève	Neurologie, psychiatrie	L'hypothèse du stress dans le Trouble de Conversion



Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Bänziger	Peter-Paul	Universität Basel	Histoire générale sans préhistoire	The Industrious Subject. A History of Productive Selves, ca. 1890-1990
Benetti	Edmondo Maria	ETH Zürich	Sciences des matériaux	Polyoxazoline-Based Coatings On Polymeric Scaffolds Directing Tissue Regeneration
Berger	Christoph	Universität Basel	Immunologie et immunopathologie clinique	Giant Cell Arteritis – towards a molecular understanding of pathogenesis
Berlincourt	Valéry	Universität Basel	Sciences de l'Antiquité	Réécriture et auto-référence dans les poèmes politiques de Claudien
Blas Temino	Diego	Université de Genève	Physique théorique	Understanding gravity at all scales: new tools for quantum gravity and cosmology
Brantut	Jean-Philippe	ETH Zürich	Autres secteurs de la physique	Mesoscopic Physics with Ultracold Atoms
Briefer	Elodie	ETH Zürich	Zoologie	Expression vocale des émotions chez les mammifères : codage, décodage et perception homme-animal
Burmann	Björn	Universität Basel	Biophysique	Structure and Dynamics of the Escherichia Coli transcription termination factor Rhod
Comas-Vives	Aleix	ETH Zürich	Chimie inorganique	Support Effects in Catalysis: The Case of Dry Reforming
das Neves Duarte	João Miguel	EPF Lausanne	Neurophysiologie et neurologie cérébrale	Metabolic features of neurodegeneration and neuroprotection upon insulin resistance
Demirors	Ahmet	ETH Zürich	Chimie physique	Bioinspired Composites by External Fields
Domínguez Borràs	Judith	Université de Genève	Neurophysiologie et neurologie cérébrale	Neural pathways of emotional attention investigated with intracranial and single-neuron recordings in humans
Döring	Leif	ETH Zürich	Mathématiques	Lévy Processes Coming in from Infinity and Jump-Diffusions with Singular Coefficients
Eggel	Alexander	Universität Bern	Immunologie, immunopathologie	Novel strategies to prevent allergic hypersensitivity reactions using disruptive IgE inhibitors
Emery	Vincent	EPF Lausanne	Mathématiques	Volume of hyperbolic manifolds and K-theory of number fields
Engel	Philipp	Université de Lausanne	Microbiologie expérimentale	Functional characterization of microbial symbioses in the honey bee gut microbiota

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Fabbri	Emiliana	PSI Villigen	Chimie physique	Designing novel electrocatalysts for fuel cells and electrolyzers by tailoring perovskite surface properties
Fagiano	Lorenzo Mario	ETH Zürich	Autres secteurs des sciences de l'ingénieur	Experimental Assessment of Airborne Wind Energy
Felli	Romain	Université de Genève	Sciences politiques	The political life of an idea: resilience to environmental change in international organisations
Fernandez Gonzalez	Santiago	Università della Svizzera italiana	Microbiologie médicale	Intravital imaging of polymicrobial respiratory diseases (IMPORED)
Fink	Julian	Universität Bern	Philosophie	Epistemic Reasons and Rational Coherence: A New Answer to 'Why be rational?'
Foletti	Ivan	Université de Lausanne	Histoire de l'art	Les morts et leurs corps comme lieu d'ethno-agrégation et de contacte: le cas d'Ambroise, de Gervais et de Protais au haut Moyen Âge (397-900). Romains, Byzantins, Lombards et Carolingiens face aux reliques milanaïses.
Fragos	Tassos	Université de Genève	Astronomie, astrophysique et recherche spatiale	The Origin of Stellar-Mass Black Hole Spin
Galland	Christophe	EPF Lausanne	Physik de la matière condensée	Heralded Single Phonon Generation and Detection in an Optomechanical Resonator
Geiser	Eveline	Université de Lausanne	Psychologie	Mechanisms of global timing perception and their influence on perception and cognition
Giger	Nathalie	Universität Zürich	Sciences politiques	The politics of family policy expansion. Electoral rewards, party politics and citizens' attitudes in comparative perspective
Grams	Christian Michael Warnfrid	ETH Zürich	Météorologie	The mutual interaction of individual weather systems and weather regimes
Hall	Alexander	ETH Zürich	Microbiologie expérimentale	Ecology of Antibiotic Resistance: Effect of Environment on Bacterial Adaptation to Antibiotics
Ionta	Silvio	Université de Lausanne	Psychologie	Validation of a Model of Sensorimotor Integration with Clinical Benefits

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Ishibashi	Wakiko	ETH Zürich	Astronomie, astrophysique et recherche spatiale	The Role of Accreting Black Holes in Galaxy Evolution
Juricek	Michal	Universität Basel	Chimie organique	Quantum Information Processing Devices: Emergence of High-Spin Nanographenes
Karlo	Christoph	Universität Zürich	Cancérologie clinique	Radiogenomics of Renal Cell Carcinoma
Laskay	Ünige	EPF Lausanne	Biochimie	Cross-Generational Effects of Obesity and Anorexia. A Mass Spectrometry-Based Systems Biology Approach.
Longchamp	Jean-Nicolas	Universität Zürich	Physik de la matière condensée	Coherent Diffraction Imaging of Graphene-Supported Single Biomolecules at Atomic Resolution
Marchand	Fabienne	Université de Fribourg	Sciences de l'Antiquité	Old and New Powers: Dynamics of Domination in a Changing World. Biotian International Relations from Philip II to the End of the Hellenistic Period
Monin	Alexander	EPF Lausanne	Physique théorique	Spontaneous Conformal Symmetry Breaking and Hierarchy Problem
Nigg	Simon	Universität Basel	Physique théorique	Quantum information processing with superconducting qubits and molecular magnets
Oloff	Florence	Universität Zürich	Langues germaniques et anglaises	The epistemics of grammar: A comparative study of co-constructions in Czech, French, and German
Pichon	Swann	Université de Genève	Psychologie	Impact of prosocial and violent videogames on pain perception: Investigating short- and long-term emotional changes
Rüegg	Andreas	ETH Zürich	Physique théorique	Topological states in quantum condensed matter and advanced materials
Saab	Bechara	Universität Zürich	Neurophysiologie et neurologie cérébrale	Exploring in the Dark: A Possible Light for Major Depression
Schärli	Yolanda	Universität Zürich	Biologie moléculaire	Robustness and evolutionary parameter drift of stripe-forming gene regulatory networks
Schöb	Christian	Universität Zürich	Ecologie	Niche space construction and facilitation, and their evolutionary consequences

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Schwab	Sandra	Universität Zürich	Langues romanes	Acquisition de la prosodie en langue seconde: l'étude de la perception de l'accent lexical sur la base d'expériences comportementales et électrophysiologiques.
Sforazzini	Giuseppe	EPF Lausanne	Chimie organique	Polymer Torsional Switches for Organic Photovoltaics
Simoni	Valerio	IHEID Genève	Ethnologie	The Transformation of Intimate and Economic Lives in Cuban Tourism and Migration
Spycher	Ben	Universität Bern	Cancer	The spatial epidemiology of childhood cancer in Switzerland
Steinberg	Florian	Universität Basel	Biologie cellulaire, cytologie	Sorting nexin mediated endocytic recycling in signalling and cancer
Stringhini	Silvia	Université de Lausanne	Cardio-angiologie	Socioeconomic status and cardio-metabolic disease: an epidemiological perspective on the biology of social adversity
Vadas	Oscar	Université de Genève	Biochimie	How kinases define specificity in lipid signalling?
Valla	Pierre	Université de Lausanne	Géologie	Tropical volcanic islands erosion and landscape evolution - Earth surface geochronology, morphometry and numerical modeling
Vidotto	Aline	Université de Genève	Astronomie, astrophysique et recherche spatiale	Evolution of the stellar wind impact on extrasolar planets
Wansleben	Leon	Universität Luzern	Sociologie	Processes of scientization in the Bank of England and the Swiss National Bank since 1960
Wüst	Samuel	Universität Zürich	Botanique	Genetics to Ecology
Zaugg	Roberto	Université de Lausanne	Histoire générale sans préhistoire	Histoires connectées, histoires narrées. Le journal d'un barbier-chirurgien entre tour de compagnon et traite négrière
Zufferey	Sandrine	Université de Fribourg	Langues germaniques et anglaises	MULDIS - Discourse Connectives: From Multiple Languages to Multilingual Minds

#### Ambizione 2012: 5<sup>ème</sup> mise au concours (56 subsides)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Bachmann	Ruxandra	Universität Zürich	Génétique	Understanding genetic modifiers in ciliopathies using the zebrafish model

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Balbi	Gabriele	Université de Genève	Sciences de la communication et des médias	Inventing European Wireless. A cultural history of wireless from point-to-point telegraphy to one-to-many broadcasting, 1903-1927
Bevan Zlatar	Antoinina	Universität Zürich	Langues germaniques et anglaises	Making and Breaking Images in John Milton
Bobeth	Gundela	Universität Zürich	Musicologie	Das deutschsprachige Lied in Wien um 1800. Ein Beitrag zur Liedkultur zwischen Aufklärung und Romantik
Brilli	Elisa	Universität Zürich	Langues romanes	L'homme, la cité terrestre et la théologie de l'histoire. Saint Augustin chez Dante
Burnier	Yannis	EPF Lausanne	Physique théorique	Plasma de particules élémentaires à haute température dans des collisions d'ions lourds
Burri	Andrea	Universität Zürich	Psychologie	Somatoform pain disorder: The role of interpersonal and epigenetic factors in the transition from acute to chronic pain disorder
Cadarso Busto	Víctor Javier	PSI Villigen	Microélectronique, Optoélectronique	Optical nanowires based biosensing platform
Caviglia	Andrea	Université de Genève	Physique de la matière condensée	Light control of artificial quantum materials
Chang	Johan Juul	EPF Lausanne	Physique de la matière condensée	Strongly correlated metals beyond the Fermi liquid concept
de Seigneux Matthey	Sophie	Université de Genève	Pathophysiologie	Kidney Tubular Cells are Major Actors in Chronic Kidney Disease (CKD) Progression: Potential Therapeutic Targets and Prognosis Markers
Deguen	Renaud	ETH Zürich	Géophysique	Setting Earth's initial conditions - Compositional and thermal partitioning during metal silicate differentiation in a magma ocean
Dreiser	Jan	EPF Lausanne	Physique de la matière condensée	Magnetic and Optical Investigations of Surface-Deposited Single-Ion Magnets
Fachard	Sylvian	Université de Genève	Archéologie	Les frontières de l'Attique. Etude du paysage frontalier d'une cité grecque : archéologie et géographie historique.
Faresse	Nourdine	Universität Zürich	Physiologie: autres secteurs	Role of the Mineralocorticoid receptor signaling in the control of adipocytes differentiation and function

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Forney	Jérémie	Berner Fachhochschule	Ethnologie	Filières alternatives dans la production laitière: reconfiguration des réseaux et autonomisation des producteurs
Frey	Olivier	ETH Zürich	Microélectronique, Optoélectronique	The Body on a Chip - Human 3-D tissue analogues in microfluidic systems
Frölicher	Thomas	ETH Zürich	Océanographie	Anthropogenic carbon and heat uptake by the Southern Ocean
Grüter	Christoph	Université de Lausanne	Ecologie	The adaptive significance of communication and learning for colony success in honey bees
Ibanez Gabilondo	Alfredo	ETH Zürich	Biologie cellulaire, cytologie	Single-cell ( <i>S.cerevisiae</i> ) level examination of the telomere maintenance process
Isa	Lucio	ETH Zürich	Sciences des matériaux	Self-assembly of anisotropic nanoparticles at liquid interfaces: unraveling the basics and designing new functional materials
Jaeger	Michael	Universität Bern	Biomedical Engineering	Novel Computerised Ultrasound Tomography in Echo Mode - CUTE: Multimodal Ultrasound Imaging for Accurate Diagnosis and Treatment Control
Joseph	Edith Michelle Maryse	Université de Neuchâtel	Chimie inorganique	MAIA
Jutzi	Martin	Universität Bern	Astronomie, astrophysique et recherche spatiale	Impact Processes in the Solar System
Kaczmarek	Mary-Alix	Université de Lausanne	Géologie	High strain zone: From the effect of mineral plasticity to plate tectonic
Katan	Mira	Universität Zürich	Neurologie, psychiatrie	Biomarker signature of stroke aetiology study: The BIOSIGNAL-Study
Khanna	Nina	Universität Basel	Immunologie, immunopathologie	Relevance of different CD4+ T-cell subsets for antifungal defense. What is aberrant in immunocompromised patients?
King	Carolyn	Universität Basel	Immunologie, immunopathologie	The role of TCR affinity in CD4+ T cell asymmetric division and differentiation
Kouyos	Roger	Universität Zürich	Maladies infectueuses	Combining molecular epidemiology approaches and mathematical models for the spread of HIV and its coinfections

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Kroll	Alexandra	EAWAG Dübendorf	Autres secteurs des sciences de l'environnement	Fate and effects of engineered nanoparticles in stream periphyton
Kurant	Maciej	ETH Zürich	Informatique	Graph Sampling: Theory and Applications
Lam	Vincent	Université de Lausanne	Philosophie	Metaphysics of quantum field theoretic structures in dynamical spacetime
Lapointe	Clayton	Université de Fribourg	Physique de la matière condensée	Cholesteric blue phase liquid crystals confined to nano-scale topographic surfaces
Latu	Ioana	Université de Neuchâtel	Psychologie	Implicit gender stereotypes in the workplace context: communication, behavioral confirmation, and detection
Lenggenhager	Bigna	Universität Zürich	Neurophysiologie et neurologie cérébrale	Binding body and self by vestibular and multisensory stimulation
Leonard	Katherine Colby	EPF Lausanne	Hydrologie, limnologie, glaciologie	Antarctic precipitation, snow accumulation processes, and ice-ocean interactions
Martinez-Garcia	Alfredo	ETH Zürich	Géologie	On the Role of the Southern Ocean in the regulation of atmospheric carbon dioxide concentrations
Meier	Laurenz	Université de Fribourg	Psychologie	Examining the Effect of Well-being on Work Stressors
Mercier	Hugo	Université de Neuchâtel	Psychologie	Reasoning in its social, cultural and argumentative context
Mühleisen	Beda	Universität Zürich	Microbiologie expérimentale	Parathyroid hormone-related peptide (PTHrP) in skin innate immune defense - regulation and role in wound healing
Necsulea	Anamaria	EPF Lausanne	Génétique	The roles of long non-coding RNAs in mammalian development and aging
Plisecka	Anna	Universität Zürich	Sciences juridiques	Normative Kommunikation in der mehrsprachigen Gesellschaft: Die Veröffentlichung von kaiserlichen Konstitutionen in den östlichen Provinzen des römischen Reiches
Pribytkova	Elena	Universität Basel	Sciences juridiques	A Social Minimum in the Language of Human Rights
Roppolo	Daniele	Universität Bern	Biologie cellulaire, cytologie	Establishment of membrane fences and local cell wall deposition in plants

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Sawarkar	Ritwick	ETH Zürich	Biologie moléculaire	Understanding the molecular role of Hsp90 in genotype-phenotype relation by using <i>Drosophila melanogaster</i> as a model
Scheiermann	Christoph	Université de Genève	Immunologie, immunopathologie	Kontrolle zirkadianer Lymphozytenmigration in lymphoiden und nicht-lymphoiden Geweben durch das sympathische Nervensystem
Schmidt	Sebastian	ETH Zürich	Physique théorique	Strongly correlated photons
Silvestrini	Nicolas	Université de Genève	Psychologie	Motivational Perspectives on the Reciprocal Influence of Cognitive Control and Pain
Skora	Susanne	ETH Zürich	Minéralogie	Adakite Petrogenesis: An experimental study on mantle metasomatism
Staub	Daniel	Universität Basel	Cardio-angiologie	Clinical Use of Contrast-Enhanced Ultrasound (CEUS) for the Assessment of Vessel Wall Vascularization (Vasa Vasorum) and Inflammation in Carotid Atherosclerosis and Venous Thrombosis
Stauder	Andreas	Universität Basel	Sciences de l'Antiquité	The Old Egyptian Verb. Functions in Text
Storey	James William	Universität Bern	Physique des particules élémentaires	First Measurement of the Free-Fall of Antimatter with an Antihydrogen Beam
Tan	Kelly	EPF Lausanne	Neurophysiologie et neurologie cérébrale	Dopamine modulation of inhibitory microcircuits in the barrel cortex
Wegmann	Daniel	EPF Lausanne	Biologie moléculaire	Coestimating selection and demography
Yalcin	Binnaz	Université de Lausanne	Génétique	Genetic basis of intellectual disability and other cognitive disorders
Zikas	Vasileios	ETH Zürich	Informatique	Towards Practical Secure Computation

#### Ambizione 2011: 4<sup>ème</sup> mise au concours (49 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Alessi	Daniel	EPF Lausanne	Géochimie	In situ Cr(VI) remediation in biostimulated natural sediments: mechanisms of formation, characterization, and long-term stability of reduced Cr(III) products
Alimonti	Andrea	Università della Svizzera italiana	Recherches expérimentales sur le cancer	Manipulation of senescence pathways for cancer therapy: from experimental models to clinic



Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Althaus	Christian	Universität Bern	Maladies infectueuses	Acute and chronic dynamics of HIV and HCV infections, within-host evolution and epidemiological outcomes
Andretta	Elisa	Université de Genève	Histoire générale (sans préhistoire)	Itinéraires des savoirs et cultures médicales de l'Europe méditerranéenne (1520-1650)
Aran	Oya	IDIAP Martigny	Informatique	Multimodal Computational Modeling of Nonverbal Social Behavior in Face to Face Interaction
Astori	Simone	Université de Lausanne	Neurophysiologie et neurologie cérébrale	Cellular mechanisms underlying sleep regulation: a role for synaptic plasticity within sleep-wave generating circuits?
Banerji	Natalie	EPF Lausanne	Chimie physique	Conjugated Donor-Acceptor Copolymers: Understanding Their Optoelectronic Functioning in Organic Solar Cells
Barducci	Alessandro	EPF Lausanne	Chimie physique	Atomistic Basis for the Multiple Functions of the Hsp70 Chaperone Machinery
Blanchet	Steve	EPF Lausanne	Physique théorique	Probing the origin of matter at the Large Hadron Collider
Bohlius	Julia	Universität Bern	Cancer	AIDS-defining and non AIDS-defining cancers in patients starting ART in Southern Africa: cohort and linkage studies
Castelletti	Cristiano	Université de Fribourg	Sciences de l'Antiquité	Flavium Caelum. Tradition aratéenne et idéologie impériale dans la poésie épique de l'époque flavienne.
Ciobanu Radomirovic	Laura Ioana	Université de Neuchâtel	Mathématiques	Algorithmic, asymptotic and combinatorial aspects of equations in groups
Corboz	Philippe	ETH Zürich	Physique de la matière condensée	Simulation of strongly correlated quantum many-body systems with tensor network and Monte Carlo algorithms
Courty	Pierre-Emmanuel	Universität Basel	Ecologie	Taxonomic and functional diversity of mycorrhizal fungi associated with poplar: an integrative approach
Donghi	Daniela	Universität Zürich	Chimie inorganique	Structural NMR investigation of the interaction between metal-based anticancer drugs and RNA
Dotsenko	Vladimir	Université de Genève	Mathématiques	Algebra and combinatorics of shuffle operads
Dubey	Sylvain	Université de Lausanne	Ecologie	The evolution of colour polymorphism in ectothermic vertebrates: A study on asp vipers

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Erb	Tobias	ETH Zürich	Microbiologie expérimentale	Reductive Carboxylases in Natural and Synthetic Microbial Pathways
Flückiger	Christoph	Universität Zürich	Psychologie	Microtuning a bonafide treatment for GAD patients – A randomized controlled trial
Gerber	Andri	ETH Zürich	Architecture, urbanisme	Städtebautheorie: Theorie einer "interdisziplinären Disziplin"
Gfeller	Aurélie Elisa	IHEID Genève	Histoire générale (sans préhistoire)	Conceptualizing World Heritage: A Contested Process (1970s-2000s)
Groh	Jose	Université de Genève	Astronomie, astrophysique et recherche spatiale	Unified models of massive stars through cosmic time
Guan	Xueli	Universität Basel	Biochimie	Lipidomics of host-pathogen interactions: human macrophage as a cellular system to study functional implications of lipid metabolism during infection
Hahn	Oliver	ETH Zürich	Astronomie, astrophysique et recherche spatiale	Galaxies and Large-scale Structure in the Universe: Their Formation and Implications for Cosmological Observables
Ifejika Speranza	Chinwe	Universität Bern	Géographie humaine et économique, écologie humaine	Resilient agriculture-based livelihoods and resilient agricultural landscapes? Adaptation to climate change in African agriculture
Jessen	Henning	Universität Zürich	Chimie organique	Dissection of Inositol-Phosphate Dependent Signaling Pathways with Novel Chemical Tools
Klohs	Jan	ETH Zürich	Neurophysiologie et neurologie cérébrale	Molecular imaging of neutrophil protease-mediated blood-brain barrier impairment and thrombosis after cerebral ischemia
Krol	Jacek	FMI Basel	Biologie moléculaire	Regulatory function of microRNAs in mouse retinal neurons
Lewinsky	Tamar	Universität Basel	Histoire générale (sans préhistoire)	Weltsprache Jiddisch. Jüdische Transmigranten aus Osteuropa im 19. und 20. Jahrhundert und die Entstehung transnationaler jiddischer Räume
Mermod	Philippe	Université de Genève	Physique des particules élémentaires	Searches for Massive Penetrating and Highly-Ionizing Particles with the ATLAS Detector at the Large Hadron Collider

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Morin	Xavier	Université de Lausanne	Ecologie	Impact des changements globaux sur la diversité en espèces ligneuses et sur la productivité forestière dans les forêts tempérées et alpines
Nievergelt	Marco	Université de Lausanne	Langues germaniques et anglaises	Allegory, Hermeneutics and Epistemology: Guillaume Deguileville's Pilgrimage trilogy in England 1350-1450.
Pachlopnik Schmid	Jana	Universität Zürich	Pédiatrie	Immune tolerance in flaky skin mutant mice
Pfister	Jean-Pascal	Universität Bern	Biophysique	Normative theory of synaptic plasticity across multiple time scales
Rambeau	Claire	Universität Bern	Autres secteurs des sciences de l'environnement	Arid Southern Levant: a joint environmental and human history for the Holocene, derived from new archives of climate change (Dead Sea edge, Jordan)
Ribi Forclaz	Amalia	IHEID Genève	Histoire générale (sans préhistoire)	Peasants, Poverty and Politics. The Emergence of Global Labour Standards in Agriculture, 1930-1960
Rimmele	Ulrike	Université de Genève	Psychologie	Effects of emotion and stress on different memory stages
Riva	Francesco	EPF Lausanne	Physique des particules élémentaires	MiPhaGe: Mining the Pharmacogenomics Literature
Saunders	Krystyna	Universität Bern	Hydrologie, limnologie, glaciologie	High resolution reconstructions of climate variability in the sub-Antarctic during the last two millennia
Schmidt	Thomas	Universität Basel	Physique de la matière condensée	Quantum effects in nanomechanical and optomechanical systems
Schuepbach	Reto	Universität Zürich	Physiologie: autres secteurs	Cytoprotection through non Anticoagulant Engineered Chimeric Activated Protein C
Slack	Emma	ETH Zürich	Microbiologie expérimentale	Immunological control of within-host S. Typhimurium population dynamics
Stadler	Tanja	ETH Zürich	Maladies infectieuses	Estimating epidemiological and evolutionary parameters from viral sequence data using phylogenetic methods
Stauder-Porchet	Julie	Universität Basel	Sciences de l'Antiquité	Les autobiographies en Égypte ancienne de 2500 à 1500 av. J.-C. : histoire d'un genre
Tegethoff	Marion	Universität Basel	Psychologie	Pediatric mental-somatic comorbidity: epidemiological and psychobiological perspectives

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Tuia	Devis	EPF Lausanne	Autres secteurs des sciences de l'environnement	Understanding the underlying structure of remote sensing images: improving adaptation in classification models with artificial intelligence techniques
Voitchovsky	Kislon	EPF Lausanne	Autres secteurs de la physique	Solid-Liquid Interfaces at the Nanoscale
Zajacz	Zoltán	ETH Zürich	Géochimie	Equilibrium between silicate melts and H-O-C-S-Cl magmatic volatiles: a key to understand volcanic eruptions and ore deposit genesis
Zenker	Olaf	Universität Bern	Ethnologie	Land restitution and the moral modernity of the new South African state

#### Ambizione 2010: 3<sup>ème</sup> mise au concours (53 subsides)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Bakkum	Douglas	ETH Zürich	Neurophysiologie et neurologie cérébrale	Network dynamics underlying learning in embodied cortical brain cells grown over an 11,011-electrode CMOS circuit
Bellone	Camilla	Université de Genève	Neurophysiologie et neurologie cérébrale	Nicotine exposure of the unborn: effects on postnatal maturation of excitatory synaptic transmission in the cortico-limbic system
Berger	Thomas	Universität Bern	Psychologie	Internet-based psychotherapy: The evaluation of internet-based interventions for social phobia, panic disorder and/or agoraphobia and generalized anxiety disorder
Breschi	Evelina	Université de Fribourg	Autres secteurs de la physique	A push-pull magnetometer with an internal microwave frequency reference
Bucher	Etienne	Universität Bern	Génétique	Investigating the tissue specific epigenetic code in plants
Caiata Zufferey	Maria	Université de Genève	Sociologie	Entre santé et maladie. Analyse des trajectoires et des modes de vie en présence du risque génétique de cancer
Crivelli	Paolo	ETH Zürich	Autres secteurs de la physique	Testing antigravity with positronium
Cvengros	Jan	ETH Zürich	Chimie organique	Tröger's base inspired organocatalysts for asymmetric dual catalysis
De Jong	Rixt	Universität Bern	Hydrologie, limnologie, glaciologie	Cold-season climate variability in the Chilean Andes during the past millennium

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Deac	Alina	EPF Lausanne	Physique de la matière condensée	Spin-dependent transport and spin-transfer torques in specially designed superlattice nanostructures with tailored anisotropies
Duba	William	Université de Fribourg	Philosophie	Francis of Marchia's Philosophical Psychology
Engelstädter	Jan	ETH Zürich	Ecologie	Why do bacteria have sex? Theoretical and experimental investigations into the evolution of bacterial transformation
Fedor	Juraj	Université de Fribourg	Chimie physique	Electron-driven chemistry at liquid interfaces
Fischer	Ozana	Universität Basel	Chimie physique	Switchable transport across genetically engineered channel proteins
Flindt	Christian	Université de Genève	Physique de la matière condensée	Nano-scale quantum devices
Frick	Andrea	Universität Bern	Psychologie	Development of Spatial Transformation Abilities
Fürstenberg	Alexandre	Université de Genève	Biophysique	Membrane dynamics and conformational diversity of G protein-coupled receptors
Gerber	Jean-David	Université de Lausanne	Géographie humaine et économique, écologie humaine	The land use strategies of local authorities in the aftermath of new public management. Impacts on spatial development and sustainability
Geuking	Markus	Universität Bern	Immunologie, immunopathologie	The role of antigen-specific and Toll-like receptor-dependent de novo generation of inducible regulatory T cells in the induction of intestinal immune homeostasis
Glauser	Dominique	Université de Fribourg	Génétique	Genetic Analysis of Temperature and Pain Sensation in <i>Caenorhabditis elegans</i>
Granziera	Cristina	Université de Lausanne	Neurologie, psychiatrie	Advanced Techniques to Investigate the Physiopathology of Multiple Sclerosis Using High and Ultra-High Field MRI
Hirschi	Caspar	ETH Zürich	Histoire générale (sans préhistoire)	Kritiker und Experten. Die Konstruktion moderner Gelehrtenrollen im Zeitalter der Aufklärung
Irla	Magali	Université de Genève	Immunologie, immunopathologie	Role of medullary thymic epithelial cells in the generation of natural regulatory T cells
Job Sutnar	Veronika	Universität Zürich	Psychologie	Implicit Theories about Willpower: Mechanisms, Replication, and Application

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Kuznets	Roman	Universität Bern	Informatique	Refining Reasoning via Justification Extraction: A Proof-Theoretic Approach
Letzkus	Johannes Jakob	FMI Basel	Neurophysiologie et neurologie cérébrale	Encoding of Associative Fear Memory in Identified Neuronal Circuits of Auditory Cortex
Martin	Gunther	Universität Bern	Autres langues	Kommentar zu Euripides, Ion
Mayor	Julien	Université de Genève	Psychologie	A neuro-computational investigation of lexical development in Williams Syndrome children
Mercer	Jason	ETH Zürich	Biologie cellulaire, cytologie	Cell biology of poxvirus infection
Parisod	Christian	Université de Neuchâtel	Botanique	Impact of transposable elements on genome dynamics and reproductive isolation
Paschoud	Adrien	Université de Lausanne	Langues romanes	Edition integrale des ecrits autobiographiques de Jean-Joseph Surin (1600-1665)
Pic	Muriel	Université de Neuchâtel	Langues romanes	Edith Boissonnas dans le cercle Paulhan : l'engagement lyrique
Plomp	Gijs	Université de Genève	Neurophysiologie et neurologie cérébrale	Functional brain networks: dynamics of directed information transfer in visual processes
Pollet	Lode	ETH Zürich	Physique de la matière condensée	Developing tools for bridging the gap between cold gases and materials
Ponzetto	Valentina	Université de Genève	Langues romanes	Le Proverbe dramatique
Rasmann	Sergio	Université de Lausanne	Ecologie	A phylogenetic study on altitudinal gradients of plant defenses against herbivores: testing classic hypotheses with contemporary methods
Riva	Oriana	ETH Zürich	Informatique	Nimbus: Personal cloud computing
Roggia	Carlo Enrico	Université de Genève	Langues romanes	Le opere linguistiche di Melchiorre Cesarotti: edizione e commento
Scharnowski	Frank	Université de Genève	Neurophysiologie et neurologie cérébrale	Modulating Human Brain Function and Dysfunction with Neurofeedback
Schimanski	Bernd	Universität Bern	Biologie cellulaire, cytologie	Nuclear mRNA export in Trypanosoma brucei - parasite specific factors or business as usual?
Schultz	Thomas	IHEID Genève	Sciences juridiques	The Ethics of Transnational Business Law

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Scrima	Andrea	FMI Basel	Biochimie	Molecular mechanism underlying Cockayne Syndrome
Slowik	Jay	PSI Villigen	Climatologie, physique de l'atmosphère, aéronomie	Production and Processing of Atmospheric Aerosols from Biogenic and Biomass Burning Sources
Spycher	Anna Cornelia	Universität Zürich	Biologie cellulaire, cytologie	"Kiss and Flush" - a minimized endocytic system in the protozoan Giardia lamblia
Szövényi	Péter	Universität Zürich	Génétique	Gene expression and the evolution of plant alternation of generations
Ullrich	Nina	Universität Bern	Cardio-angiologie	Functional characterization and comparison of stem cell-derived cardiomyocytes for cardiac regenerative medicine
Voets	Ilja	Université de Fribourg	Chimie physique	Antifreeze proteins in solution and at interfaces
Weder	Christine	ETH Zürich	Langues germaniques et anglaises	Intime Beziehungen: Literatur, Ästhetik und Theorien der Sexualität um 1968
Wilhartitz	Inés	EAWAG Dübendorf	Hydrologie, limnologie, glaciologie	Microbial communities inherent to karstic aquifers - ecological driving forces in the depth
Worthington	Martin	Université de Genève	Autres langues	Individual style in Babylonian narrative poetry of the 1st millennium BC
Yanagisawa	Hirofumi	ETH Zürich	Physique de la matière condensée	Spatio-temporal Control of Coherent Electron Emission
Yoo	Jaiyul	Universität Zürich	Astronomie, astrophysique et recherche spatiale	Cosmological Probes of Dark Sector of the Universe
Zech	Roland	ETH Zürich	Géologie	Tracking glacial cycles across Eurasia using lipid biomarkers in loess-paleosols-sequences

#### Ambizione 2009: 2<sup>ème</sup> mise au concours (53 subsidies)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Alvarez	Nadir	Université de Lausanne	Zoologie	Coalescence and adaptation processes in plant-insect interactions: Bridging the gap between genomics and phylogeography
Amati	Francesca	Univeristé de Lausanne / Universität Bern	Endocrinologie	Insulin resistance of aging, ectopic lipid depositions and oxidative capacity: effects of exercise and obesity

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Appenzeller-Herzog	Christian	Universität Basel	Biologie cellulaire, cytologie	Role and regulation of luminal disulfide switches in calcium signaling from the endoplasmic reticulum
Baglioni	Daniele	Universität Zürich	Langues romanes	Gli esiti del nesso GN nelle lingue romanze (con speciale riguardo all'Italia)
Berner	Daniel	Universität Basel	Biologie moléculaire	The molecular basis of parallel evolution in stickleback foraging morphology
Bichsel	Christine	Université de Fribourg	Géographie humaine et économique, écologie humaine	Territory in Socialist Central Asia. A Political Geography of Soviet Modernity, 1953-1982
Braband	Henrik	Universität Zürich	Chimie inorganique	Technetium Chemistry at High Oxidation States: New Perspectives for Nanomaterials and Polyoxometalates in Medicine and Environmental Science
Brunner	Philip	Université de Neuchâtel	Hydrologie, limnologie, glaciologie	Controls and impact of geologic heterogeneity and temporal dynamics in surface water groundwater interaction
Bucher-Karlsson	Michelle	EPF Lausanne	Mathématiques	Milnor-Wood inequalities and characteristic classes
Cacchione	Trix	Universität Zürich	Psychologie	Core knowledge revisited: Effects of fission, fusion and shape transformation on infants' ability to represent inanimate and animate objects
Cakareski	Jakov	EPF Lausanne	Informatique	YouStream: Context-Aware Distributed Media Delivery
Carbone	Fabrizio	EPF Lausanne	Physique de la matière condensée	Real-time structural investigation of superconductors
Champagnac	Jean-Daniel	ETH Zürich	Géologie	Glacial Carving versus Tectonic Forcing. Documenting their Relative Contribution to Relief Formation
Colombaroli	Daniele	Universität Bern	Ecologie	Fire, climate change and human impact in tropical ecosystems: paleoecological insights from the East African region
Contratto	Franca	Universität Zürich	Sciences juridiques	Rechtsschutz im Wirtschaftsrecht - Phänomenologie und Ursachen aktueller Vollzugsdefizite sowie Reformansätze für die Zukunft
Everts	Regula	Universität Bern	Psychologie	Behavioural and Neural Effect of Memory Training in Children born Preterm



Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Felsch	Philipp	ETH Zürich	Histoire générale (sans préhistoire)	Humboldts Söhne. Das paradigmatische Leben der Brüder Schlagintweit (1820-1890)
Gasser	Gilles Albert	Universität Zürich	Chimie inorganique	Synthesis of PNA-Metal Bioconjugates by "Copper-Free" and "Photo" Click Chemistry: An Approach towards the in Vitro Attachment of Organometallics to Biomolecules
Hollenstein	Marcel	Universität Bern	Chimie organique	Improving the catalytic repertoire of DNA enzymes
Izzo	Anna	Université de Lausanne	Langues romanes	Il racconto di secondo grado nell'Orlando Furioso e nella tradizione cavalleresca
Jermann	Patrick	EPF Lausanne	Informatique	Multimodal Interaction Modelling and Regulation of Collaborative Problem-Solving
Jucker	Michael	Universität Luzern	Histoire générale (sans préhistoire)	Beute, Plünderung, Kulturgüterraub. Kriegsökonomie und symbolische Konfliktformen vom Mittelalter bis zur Renaissance
Junier	Pilar	Université de Neuchâtel	Microbiologie expérimentale	Metabolic capabilities of spore-forming microorganisms
Kaufmann	Tobias	ETH Zürich	Physique théorique	Extended Gaseous Halos as a Probe of Galaxy Formation
Kleim	Birgit	Universität Zürich	Psychologie	Psychological and Biological Mechanisms of Stress Resilience
Kocsis	Laszlo	Université de Lausanne	Géochimie	Paleogene environmental conditions in shallow tropical basins: case studies in the Tethyan phosphate deposits of North Africa
Kränkel	Nicolle	Universität Zürich	Cardio-angiologie	Verbesserung der Rekrutierung Pro-angiogener Zirkulierender Zellen mittels Manipulation der Kinin-Rezeptor Signalübertragung
Kümmerli	Rolf	EAWAG Dübendorf	Ecologie	Evolutionary explanations for the persistence of cooperative siderophore production in the bacterium Pseudomonas aeruginosa
Lieberman	Max	Universität Zürich	Histoire générale (sans préhistoire)	Conflicts between chivalry and law in high medieval "states", ca. 1000-1300
Maan	Martine	Universität Bern	Ecologie	The colours of speciation: can visual adaptation and sexual selection drive species divergence in cichlid fish?
Mader	Rachel	Zürcher Hochschule der Künste (ZFH)	Histoire de l'art	Kunst als Unternehmen - kreative Praxis und Kulturpolitik seit 1980

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Margolis	David	Universität Zürich	Neurophysiologie et neurologie cérébrale	Neuronal circuit mechanisms of experience-dependent plasticity in adult mouse barrel cortex
Martinvalet	Denis	Univesité de Genève	Immunologie, immunopathologie	Reactive Oxygen Species in Granzyme-mediated Cell Death: from Mechanism to Applications
McKinley	Richard	Universität Bern	Informatique	Computational Structure of Classical Duality
Modestin	Georg	Universität de Fribourg	Histoire générale (sans préhistoire)	Heinrich von Diessenhofen als Historiograph seiner Zeit im Rahmen der süddeutschen Reichsgeschichtsschreibung
Pedrioli	Patrick Gino Angelo	ETH Zürich	Biochimie	Functional significance and regulation of nucleotide thiolation in RNA molecules
Pignatari	Marco	Universität Basel	Astronomie, astrophysique et recherche spatiale	A new comprehensive analysis of nucleosynthesis in stars: a bridge between nuclear astrophysics, stellar models and observations
Purtschert	Patricia	ETH Zürich	Philosophie	Kolonialismus ohne Kolonien? Eine postkoloniale Diskursanalyse der Schweiz
Ramadoss	Ajay	ETH Zürich	Mathématique	Topological quantum mechanics and index theorems.
Reubi	Olivier	ETH Zürich	Géochimie	Integrating U-series and petrology to constrain the time scales of arc magmatism
Romanyuk	Yaroslav	EMPA Dübendorf	Microélectronique, optoélectronique	Semi-transparent solar cells based on oxide semiconductors
Rüegg	Joëlle	Universität Basel	Biologie moléculaire	Role of estrogen receptors in mediating specific DNA methylation changes and it implication for endocrine disruption
Ruiz	Geoffrey	Universität de Lausanne	Géologie	Cauca-Lift: Uplift in the Caucasus Mountains – Insights from very low Temperature thermochronometry and in cosmogenic dating
Schaepli	Bettina	EPF Lausanne	Hydrologie, limnologie, glaciologie	Hydrologic Prediction in Alpine Environments
Seeger	Markus	Universität Zürich	Biochimie	Targeting multidrug efflux proteins: Studying transport processes across the membrane using designed ankyrin repeat proteins and antibody fragments

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Silander	Olin	Universität Basel	Microbiologie expérimentale	The generation of novel function in microbial systems
Spinelli	Simona	Universität Zürich / ETH Zürich	Neurophysiologie et neurologie cérébrale	Human and mouse-model study of serotonin transporter involvement in abnormal negative feedback processing in depression: translational neural imaging and neuropsychological testing.
Stuparu	Mihaiela Corina	Universität Zürich	Chimie organique	New optoelectronic materials based on corannulene derivatives
Taylor	Kirsten I.	Universität Basel	Psychologie	Transentorhinal Cortex Function and Structure in Preclinical Alzheimer's Disease
Teubner	Jens	ETH Zürich	Informatique	Avalanche: Stream Processing on Bare Metal
Vazquez	Franck	Universität Basel	Biologie moléculaire	Genetic and Molecular Insights into the Regulation of Endogenous RNA Silencing Pathways of Plants
Walter	Martin Alexander	Universität Basel	Cancérologie clinique	Somatostatin-coupled Nanoparticles for Cancer Imaging and Therapy
Zamagni	Claudio	Université de Lausanne	Sciences des religions, théologie	L'"Apocalypse de Paul" apocryphe: édition critique et commentaire

#### Ambizione 2008: 1<sup>ère</sup> mise au concours (37 subsides)

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Abiven	Samuel	Universität Zürich	Pédologie	Physical, molecular and microbial evidence of char degradation
Argyaki	Aikaterini	EPF Lausanne	Informatique	Internet Accountability
Aue	Tatjana	Université de Genève	Psychologie	Neural and somatovisceral processes associated with expectancy bias in spider phobia
Becue	Andy	Université de Lausanne	Génie chimique	Development of advanced fingerprint detection techniques based on luminescent nanoparticles
Berking	Matthias	Universität Bern	Psychologie	Evaluating the Effectiveness of an Intensive Emotion-Regulation Training as an Adjunctive Intervention in Psychotherapeutic Treatment of Mental Disorders
Casini	Angela	EPF Lausanne	Chimie inorganique	Exploring the mechanisms of metal-based pharmacological agents via an integrated approach

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Dagron	Stéphanie	Universität Zürich	Sciences juridiques	Essai de systématisation des politiques de régulation touchant à la mise sur le marché et au suivi des médicaments
Forclaz	Bertrand	Université de Neuchâtel	Histoire générale (sans préhistoire)	La guerre de Trente ans aux frontières de l'Empire (1618-1648): appartenance, expérience, mobilité
Gabrecht	Tanja	EPF Lausanne	Autres secteurs de la physique	Instrumental developments, optimisation and evaluation of photodynamic therapy of the Crohn's disease
Guillaume	Frédéric	ETH Zürich	Génétique	Genetic determinants of adaptive variation and their evolution in structured populations
Gysel	Martin	PSI Villigen	Climatologie, physique de l'atmosphère, aéronomie	Soot Nanoparticles in the Past and Present Atmosphere
Huang	Jen-How	ETH Zürich	Pédologie	Influence of arsenate adsorption on iron and aluminium hydroxide surfaces on microbial arsenate reduction kinetics
Lachat	Romain	Universität Zürich	Sciences politiques	Contextual factors and the spatial model of electoral competition
Lara	Enrique	Eidg. Forschungsanstalt - WSL	Autres secteurs des sciences de l'environnement	Genetic microdiversity and ecology of protists
Leimgruber	Matthieu	Université de Genève	Histoire générale (sans préhistoire)	The emergence of the "crisis of the welfare state": a social and transnational history (1970s-1980s)
Lobmaier	Janek	Universität Bern	Psychologie	Processing the "Social" Face
Martin	Oliver Yves	ETH Zürich	Ecologie	Evolutionary Conflicts and their Impact on Speciation
Michel	Gisela	Universität Bern	Cancer	Follow-up care after childhood and young adult cancer
Minehira Castelli	Kaori	Université de Lausanne	Pathophysiologie	Molecular and nutritional approach for a study of non-alcoholic fatty liver diseases in mice and human
Müller	Cristina	PSI Villigen	Pharmacologie, pharmacie	Folate Receptor Targeting for Imaging and Potential Therapy of Cancerous and Inflammatory Diseases
Rankin	Daniel	Universität Zürich	Ecologie	The Evolution and Ecology of Mobile DNA
Sartori	Alessandro	Universität Zürich	Biochimie	The role of CtIP phosphorylation in DNA double-strand break processing
Savu	Veronica	EPF Lausanne	Sciences des matériaux	Full-Wafer Dynamic Nanostencil Lithography

Nom	Prénom	Institution d'accueil	Discipline	Titre du projet
Schmidlin	Eric	Université de Fribourg	Neurophysiologie et neurologie cérébrale	Physiological investigation of the motor output from motor cortex after transient and permanent inactivation in sub-human primate treated with an antibody enhancing functional recovery of function, assessed by chronically implanted electrodes
Schöbi	Dominik	Université de Fribourg	Psychologie	The Coregulation of Daily Affective Experiences in Couples with Young Children
Studer	Michael Hans-Peter	ETH Zürich	Autres secteurs des sciences de l'ingénieur	Novel system for the direct fermentation of pretreated lignocellulosic material to ethanol in a single reactor
Surroca Ortiz	Andrea	Universität Basel	Mathématique	On some trascendental and diophantine problems
Thevenon	Florian	Université de Genève	Autres secteurs des sciences de l'environnement	Natural and anthropogenic mineral aerosols from ice and sediment Alpine records: Climatic, stratigraphic, and environmental implications
Thomos	Nikolaos	EPF Lausanne	Informatique	Low cost network coding for collaborative video streaming
Tilg	Stefan	Universität Zürich	Sciences de l'Antiquité	Apuleius and the Ancient Novel
van Dongen	Luc	Université de Fribourg	Histoire générale (sans préhistoire)	La "garde anticommuniste" suisse et ses homologues occidentales au temps de la guerre froide : réseaux, milieux et transferts transnationaux (1945-1975)
Vasos	Paul Romeo	EPF Lausanne	Chimie physique	Storing slow processes in spin memory: long-lived states
Vuilleumier	Séverine	Université de Lausanne	Ecologie	Dynamique des gènes en métapopulations hétérogènes
Walentowitz	Saskia	Universität Bern	Ethnologie	Feeding dilemmas. Anthropological perspectives on infant feeding, policies and science in contexts of HIV
Würzner	Gregor	Université de Lausanne	Médecine interne	Implication and interaction of the renal sympathetic nervous system, the renin-angiotensin-aldosterone system and renal sodium handling in pre-hypertensive or hypertensive states
Yamahata	Christophe	EPF Lausanne	Autres secteurs des sciences de l'ingénieur	Micropincettes en Silicium pour l'Instrumentation Biophysique Moléculaire
Zobi	Fabio	Universität Zürich	Chimie inorganique	Systematic Approach to Rhenium (II) Building Blocks via Ligand-Mediated Decarbonylation: Prospective and Applications in Medicinal Inorganic Chemistry and for Single-Molecule Magnets

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